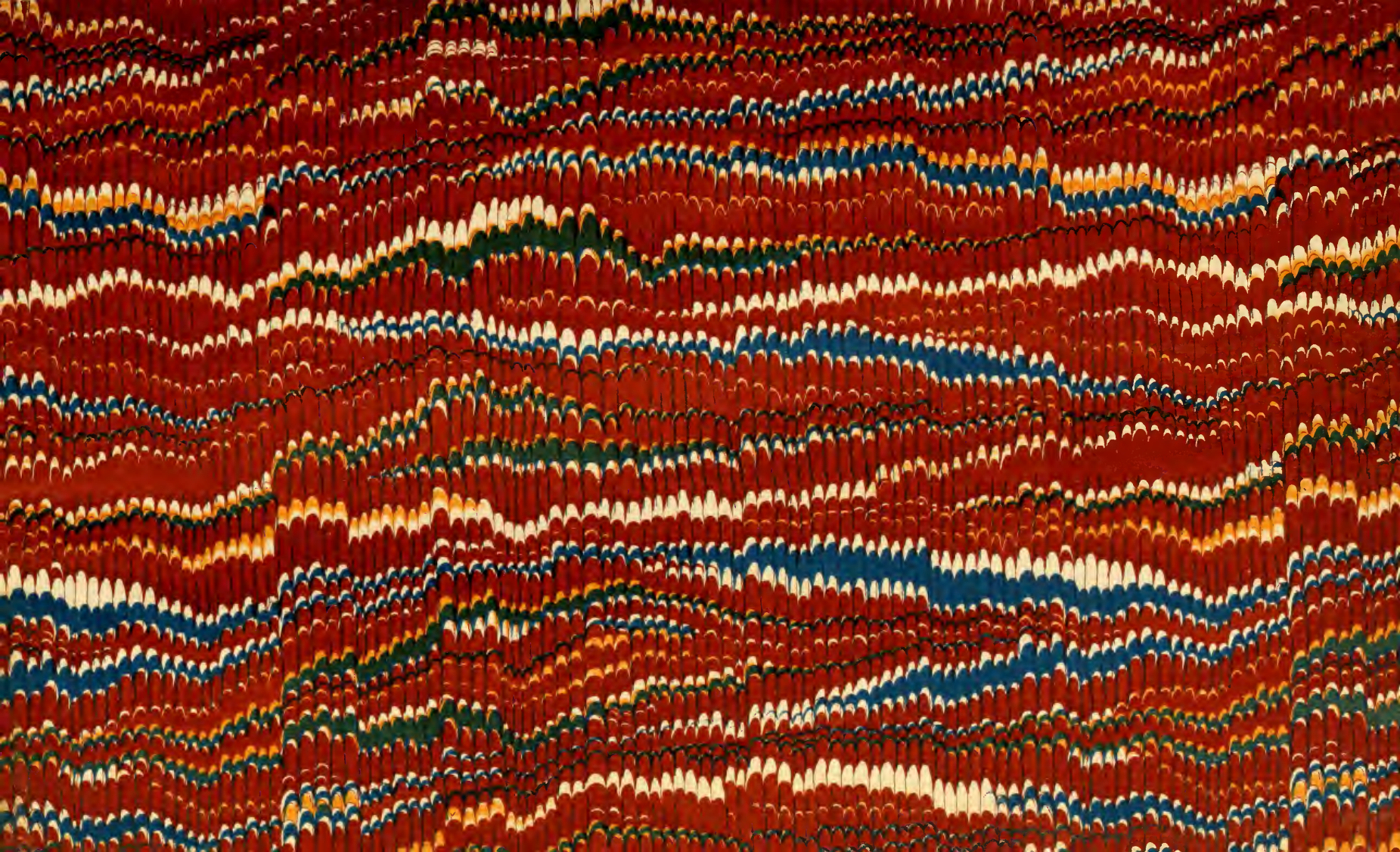

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COLLEGE OF AGRICULTURE, AGRICULTURAL EXPERIMENT STATION
ENTOMOLOGY
Vol. 2, pp. i-xiv, 1-902 November 30, 1917

CATALOGUE OF THE HEMIPTERA OF AMERICA NORTH OF MEXICO

EXCEPTING THE

APHIDIDAE, COCCIDAE AND ALEURODIDAE

BY

EDWARD P. VAN DUZEE

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UNIVERSITY OF CALIFORNIA PRESS
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ENTOMOLOGY

CHARLES W. WOODWORTH

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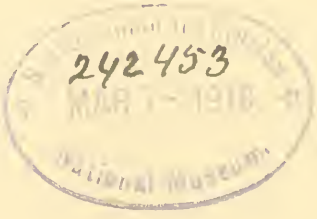
VOLUME 2



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BERKELEY
1917

TO THE MEMORY OF THE LATE

PHILIP REESE UHLER

IN SINCERE APPRECIATION OF HIS UNREMITTING AND DISINTERESTED LABOR IN ELUCIDATING AND PLACING ON A FIRMER FOUNDATION THE STUDY OF NORTH AMERICAN HEMIPTEROLOGY AND OF HIS UNFAILING KINDNESS AND READY ASSISTANCE EXTENDED TO THE AUTHOR DURING THE EARLY YEARS OF HIS STUDIES OF THESE INSECTS, THIS WORK IS MOST RESPECTFULLY DEDICATED.

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INTRODUCTORY

The present catalogue undertakes to give a complete enumeration of all the described Hemiptera, to and including the Chermidae, recorded from or known to occur in America north of the southern boundary of the United States. The families Aphididae, Coccidae and Aleurodidae have been omitted, largely because of the fact that I have made no careful study of these groups and feel that others are more competent to work out their synonymy. On account of their different habits and the special methods required in observing, collecting and preserving them, this omission is of little moment to students of the higher families of the Hemiptera.

The first draft of this catalogue was completed more than two years ago and as there was then no prospect of its early publication, a Check List giving the classification, synonymy and dates for all the species was prepared and, through the kindness of Mr. Wm. T. Davis of New York, was published by the New York Entomological Society. The introductory matter given below is largely a repetition of that published in the Check List and the numbering of the species in this catalogue has been made to correspond with that in the Check List to facilitate ready reference from one to the other, the species added since the publication of that list having been interpolated in fractional form. A summary of the rules used by me in working out the nomenclature of the catalogue was published in March, 1916, in the Annals of the Entomological Society of America and need not be repeated here.

While perhaps less philosophical, it has seemed best to begin this catalogue with the higher forms so as to bring it more into line with such recent works as the Oshanin, Kirkaldy, and Lethierry and Severin catalogues. For the Heteroptera the Reuter classification of 1912 has been followed very closely, but it has seemed desirable to reduce a number of his families to subfamily rank. Unfortunately the Homoptera have not been worked out with equal thoroughness, but Hansen's studies seem to show conclusively that the Fulgoridae, which I prefer for the present to retain as a single family, are the highest and most specialized of the Homoptera. In this respect also the Cicadidae appear to approach the Fulgoridae, but their develop-

ment has been along a different line. It might be more logical to consider the Membracidae as a mere subfamily of the Jassidae, and they are retained here as a separate family more out of deference to common usage. A critical study of the whole of the Homoptera may result in dividing the Fulgoridae into two or possibly three distinct families and in leaving the Membracidae and perhaps the Bythoscopidae, Cicadellidae and Jassidae as distinct families under a superfamily Cicadelloidea. Kirkaldy divides his Fulgoroidea into eight distinct families, but gives no characters from which we can judge of the value of his scheme and his divisions certainly are of unequal value. Kirkaldy also claims that the Gyponini have very little to do with the Cicadellini but he fails to give his reasons, merely rejecting the position of the ocelli as a character of any real importance. But this character certainly has more value than the horizontal extension of the head and I propose to retain my classification of 1892 until some reason is advanced for rejecting it, merely changing the value of the several groups. I might add that the division Dorydiaria is sufficiently distinguished by the venation, although the flattening of the head is characteristic, and that the Bythoscopinae in their larval and other characters are allied to the Membracidae and serve to connect them with the Jassidae.

In selecting the references to be included in this catalogue it has been my object to take such as will show the history and standing, not only of each species and genus but also of the higher groups. Here for the first time the history and synonymy of the group names higher than the genus have been worked out with as great care and accuracy as in the case of the genera and species. If this effort will help in any measure to stabilize family nomenclature, it will well repay the time and space required. I have rejected as illogical and contrary to the accepted rules of zoological nomenclature Kirkaldy's system of founding the family name on the oldest genus-name included and have adopted Dr. Horvath's system by which we give priority to family names the same as we do to the names of genera and species; and, what is really the foundation of the system, we give to each family a type genus and the family name follows that of the type genus through all its subsequent changes. For example the family Gelastocoridae was founded as Galgulidae with Gaugulus as type genus. When it was found that the name Galgulus was preoccupied and the genus was renamed Gelastocoris the family name automatically became Gelastocoridae, instead of taking the next oldest

name, Mononychidae, which would have changed the type of the family to Mononyx. Logically, we have no more right to change the type of a family than of a genus or a species.

Every one who has given the matter any study will agree that most changes in generic names come from one of two causes; changes in the accepted dates of the books in which they were published and diversity of method in the selection of geno-types. In the matter of dates I have accepted no changes unless I could feel satisfied that they were justified. There will be no uniformity in this matter until there is an official bibliography with all dates validated by an international committee, a consummation that I fear is still far in the future. Regarding geno-types I have followed the International Rules as closely as I could interpret them. As a basis I have accepted the type fixations in five of the earlier works in all cases where but one type was named. Where two or more were named I have rejected them all and accepted the next valid single fixation. The five works referred to are: Lamarck, Systême des animaux sans vertèbres, 1801; Fabricius, Systema Rhyngotorum, 1803; Latreille, Considérations générales sur l'ordre naturel des animaux, 1810; Laporte, Essai d'une classification systématique de l'ordre des Hémiptères, 1832; and Westwood, Introduction to the modern classification of insects: Synopsis, at end of vol. 2, 1840. These type-fixations have, I think, been accepted by Dr. Reuter and other European Hemipterists and probably are open to as few objections as any cases where the type species is not named in so many words in connection with each individual genus. All these writers, with the possible exception of Fabricius, stated that they were naming types for the genera and we have Fallén for authority that he was doing so. Kirkaldy claims that Fabricius indicated types for his genera in the Entomologica Systematica in the same way that he did in his Systema Rhyngotorum, but he really made such a designation by repeating generic characters in his specific descriptions in the case of but very few hemipterous genera, and then without italics, and in his later work he omitted some of these and changed others; hence there seems to be no valid reason why we should accept these earlier ones as type-fixations.

I have here accepted the classification of geno-types devised by Mr. O. F. Cook and published in May, 1914, in the American Naturalist. These terms are:

Orthotype, a type by original designation.

Haplotype, a type by single reference (only species).

Logotype, a type by subsequent designation.

Pseudotype, an erroneous type designation.

In the terminology I have uniformly used the endings *idae* for families, *inae* for subfamilies, *ini* for tribes and *aria* for divisions or subtribes, thus changing the terminations of divisions where they had been used as tribes by Reuter and others. All genera have been considered as *nomina nuda* until a type can be fixed, thus invalidating all genera founded without the mention of a described species. These become valid and date from the naming of an included species that is recognizable and available as type. On the contrary a genus published in a systematic work, without a description but with distinct indication that it was established for a previously described valid species, has been accepted. This, however, does not include mere catalogue names unless they are given to replace a preoccupied name. The changes from either of these causes are very few in the North American Hemiptera. The most important are the use of Tibicen for Cicada of Stål and most recent writers, Meadorus Mulsant and Rey for Elasmucha Stål and Corecoris Hahn for Spartocera Laporte. The new genera established in the first part of Fieber's Die europäischen Hemiptera published in 1860 are *nomina nuda* there and are not recognized until they appear in the later pages with the mention of a species. Amyot's monomials, validated later by Kolenati, have been credited to the latter author and date from the publication of his descriptions.

I might add that priority, whether in the name of a species, genus or of a higher group, has been strictly followed throughout this catalogue so far as such priority was susceptible of proof.

No attempt has been made to include every published reference to each species, but I have tried not to omit one giving a useful description or figure or one that is of interest in extending the geographical range of the species. All references effecting the synonymy and history of the species, genus or family have been included. Our knowledge of the distribution of our species is still too fragmentary to allow the satisfactory naming of a "habitat" so I have contented myself with recording, by states only, the known or published localities of capture.

It has been my endeavor within each genus to arrange the species systematically so as to show their relationships. But in the genus Arctocorixa this was impossible and in certain other genera it has been but imperfectly accomplished.

As one important object of this catalogue is to show the history of each name, all references have been arranged strictly in chronological order and, in the case of species, the genus in which it was placed by each author is given if it differs from the one here adopted. In the case of names higher than genera, the original form used has been appended to each reference if it differs from that here employed, and the category is also given where different.

Preoccupied names are marked by a ||.

Names cited in error by a †.

Emendations by a ‡.

Clerical errors by a §.

Nomina nuda by a ¶.

The following names are proposed for the first time in this catalogue:

Fitchiella for Naso Fitch.

Empoa quercı var. **gillettei** for var. bifasciata (G. & B.)

Since the publication of the Check List in June, 1916, 263 species have been added to our North American list, of which sixteen, mostly Chermidae, are forms overlooked in the preparation of that list, and of the remaining 247 a few are exotic forms recently recognized from our territory, the balance being apparently valid new species. Ten of the species included in the Check List have since been sunk as synonymous of others, leaving a net gain of 253 species and making the total number listed in this catalogue, 3198 accepted species.

It will be noted that the original form of each name has been used here, except where a typographical error is evident. This has not been done with the idea of imposing upon our students the use of improperly formed words. In each case all published emendations have been given and each student is at liberty to use such emendations as in his judgment may seem best.

The table of additions and corrections was made up from the last proof sent me from the printers and it is quite possible that a few of the corrections included will be found to have been made on the final sheets.

An adequate recognition of the assistance received during the preparation of this catalogue would embrace a wide circle of friends and correspondents who have kindly sent me suggestions and corrections. These have contributed much toward the accuracy and value of the work and to them I wish to extend my sincere thanks. Special acknowledgments are due to Professor C. W. Woodworth

of the University of California, to Dr. Barton W. Evermann, Director of the California Academy of Sciences, whose kind consideration has greatly lightened the labor of the final preparation and printing of this work, and to Dr. E. Bergroth of Turtola, Finland, for most valuable synonymical and bibliographical information.

Edward P. Van Duzee.

San Francisco, California,
October 12, 1917.

Order *HEMIPTERA* Linn.

Linnaeus, Syst. Naturae, Edn. 10, i, p. 434, 1758.
Geoffroy, Hist. Abreg. des Ins., i. p. 410, 1762.
Forster, Novae Spec. Ins., Cent. I, p. 67, 1771.
Goeze, Ent. Beyt., ii, p. 1, 1778.
Olivier, Encyc. Meth. Hist. Nat., iv, p. 24, 1789.
Thunberg, Charac. Gen. Ins., Edn. 2, p. 31, 1791.
Lamarck, Syst. des Anim. s. Vert., p. 289, 1801.
Latreille, Hist. Nat. Crust. Ins., iii, p. 240, 1802.
Latreille, Genera Crust. Ins., iii, p. 108, 1807.
Latreille, Consid. Génl., p. 250, 1810.
Latreille, Fam. Nat. Règne Anim., p. 416, 1825.
Fallén, Hemip. Suec., Cimic., preface, 1829.
Latreille, *in* Cuvier, Règne Anim., Edn. 2, v, p. 189, 1829.
Brullé, Hist. Nat. des Ins., ix, p. 233, 1835.
Spinola, Essai sur les Hémip., p. 7, 1837 (1840).
Amyot and Serville, Hémip., p. 1, 1843.
Proboscidea Scopoli, Ent. Carn., p. 112, 1763.
Ryngota Fabricius, Syst. Ent., p. 673, 1775.
Fabricius Ent. Syst., iv, p. 1, 1794.
‡*Rhyngota* Fabricius, Syst. Rhyng., p. iii, 1803.
‡*Rhynchota* Burmeister, Handb. d. Ent., ii, p. 45, 1835.
Arthroidignatha Spinola, Tavola Sinot, p. 25, 1850.

SECTION *HEMELYTRATA* Fall.

Fallén, Hemip. Suec., Cimic., preface, 1829.

Suborder *HETEROPTERA* Latr.

Latreille, Consid. Génl., p. 250, 1810.
Latreille, Fam. Nat. Règne Anim., p. 418, 1825.
Fallén, Hemip. Suec., Cimic., preface, 1829.
Brullé, Hist. Nat. des Ins., ix, p. 239, 1835.
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Westwood, Intr. Mod. Classif. Ins., ii, p. 450, 1840.
Amyot and Serville, Hémip., p. 11, 1843.
Dermaptera Retzius, Gen. et Spec. Ins., p. v, 1783.
Hemiptera Leach, Brewster's Edinbg. Encyc., ix, p. , 1815.
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Stephens, Illust. Brit. Ent., i, p. 2, 1828.
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Laporte, Essai Classif. Syst. Hemip., p. 1, 1832.
Handlirsch, Die Fossil Ins., p. , 1908.
Brues & Melander, Key Fam. N. Am. Ins., p. 76, 1915.

SERIES *POLYNEURIA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 38, 49, 1912.
Oshanin, Kat. Palae. Hemip., p. 1, 1912.

Superfamily SCUTELLEROIDEA (Burm.)

Burmeister, Handb. d. Ent., ii, p. 343, 1835, *Scutati.*
Dohrn, Cat. Hemip., p. 1, 1859, *Scutata.*
Flor, Rhyng. Livl., i, p. 63, 1860, *Scutata.*
Scutelleriens Brullé, Hist. Nat. des Ins., ix, p. 389, 1835.
Westwood, Hope Cat., i, p. 3, 1837, *Scutelleridae.* [*Scutelleridae.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 484; Synop., p. 123, 1840,
Blanchard, Hist. des Ins., Hémip., p. 141, 1840, *Scutelleriens.*
Longiscutes Amyot and Serville, Hémip., p. xv, 1843.
Gorski, Anal. Ent., i, p. 21, 1852.
Pentatomida Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 31, 1872. (Family.)
Uhler, Check List, p. 3, 1886, Superfam. *Pentatomoideae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 5, 1886, Fam. *Pentatomides.*
Lethierry and Severin, Cat. Génl. Hémip., i, p. 1, 1893, Fam. *Penta-* [*tomidae.*
Hüeber, Cat. Ins. Fauna Germ., Heter., p. 5, 1902, Fam. *Pentatomides.*
Distant, Fauna Brit. Ind., Rhyn., i, p. 1, 1902, Fam. *Pentatomidae.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 3, 1904, Fam. *Pentatomidae.*
Bergroth, Mém. Soc. Ent. Belg., xv, p. 132, 1908, Fam. *Pentatomoidae.*
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Reuter, Of. Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912, Superfam. [*Pentatomoideae.*
Zimmer, Univ. Neb. Studies, xi, p. 2, 1912, Fam. *Pentatomidae.*
Van Duzee, Check List Hemip., p. 1, 1916, *Pentatomoidea.*
Cimicidae Kirkaldy, Can. Ent., xl, p. 359, 1908.
Kirkaldy, Cat. Hemip., i, p. 1, 1909 (omits *Cydnidae.*) [series.)
Peltocephala Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910 (as

PHALANX *PENTATOMIFORMES* Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.

Family SCUTELLERIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. —, 1815, *Scutellerida.*
Laporte, Essai Classif. Syst. Hémip., p. 66, 1832, *Scutellerites* (in part).
Leach, Brewster's Edinbg. Encyc., Am. Ed., viii, p. 710, 1832, *Scutellerida.*
Costa, Cimic. Reg. Neap., Cent. i, p. 55, 1838, *Scutellerini.*
Germar, Zeit. f. Ent., i, p. 4, 1839, *Scutellerites.* (Monograph.)
Spinola, Essai sur les Hémip., p. 357, 1840, *Scutelleroides.*
Blanchard, Hist. des Ins., Hémip., p. 155, 1840, *Scutellerites.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop. p. 124, 1840, Subfam. *Scutellerides.*
Spinola, Tavola Sinot., p. 28, 1850, Subfam. *Scutelleroideae.* (Keys.)
Dohrn, Cat. Hemip., p. 1, 1859, *Scutelleroides.*
Vollenhoven, Essai Faune Ent. Ind. Neer., i, p. 3, 1863, *Scutellerides.*
Stål, Hemip. Afr., i. p. 33, 1864, Subfam. *Scutellerida.*

Stål, Hemip. Fabr., i, p. 9, 1868, Subfam. *Scutellerida.* [(Key.)
Mayr, Reise Freg. Novara, Zool. ii, Hemip. p. 11, 1868, Subfam. *Scutellerida.*
Stål, Enum. Hemip., i, p. 4, 1870, Subfam. *Scutellerina.* (Systematic.)
Stål, Of. Vet. Akad. Forh., xxvii, p. 615, 1870, Subfam. *Scutellerina.*
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Lethierry and Severin, Cat. Génl. Hémip., i, p. 15, 1893, Subfam. *Scutelleridae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 38, 1902, Subfam. *Scutellerinae.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 11, 1904. (Systematic.)
Schouteden, Genera Ins., Fasc. 24, p. 1, 1904. (Systematic.)
Oshanin, Verz. Palae. Hemip., i, p. 27, 1906, Subfam. *Scutellerina.*
Bergroth, Mém. Soc. Ent. Belg., xv, p. 139, 1908, Subfam. *Scutellerinae.*
Kirkaldy, Cat. Hemip., i, p. 262, 1909, Subfam. *Scutellerinae.* (Catalogue.)
Banks, Cat. Neare. Hemip., p. 96, 1910. (Catalogue.)
Oshanin, Kat. Palae. Hemip., p. 4, 1912, Subfam. *Scutellerinae.* [(Keys.)
Zimmer, Univ. Neb. Studies, xi, pp. 220, 239, 1912, Subfam. *Scutellerinae.*
Tetyrae Fieber, Europ. Hemip., p. 27, 1861.
Stål, Of. Vet. Akad. Forh., xxiv, p. 491, 1867, *Tetyridae.* (Keys.)
Pachycoridae Uhler, Proc. Am. Ent. Soc., ii, p. 158, 1863.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876.

Subfamily **TETYRINAE** (Stål)

Stål, Enum. Hemip., iii, pp. 3, 24, 1873, Div. *Tetyraria.*
Distant, Fauna Br. Ind., Rhyn., i, p. 65, 1902, Div. *Tetyraria.*
Schouteden, Genera Ins., Fasc. 24, pp. 4, 42, 1904, Tribe *Tetyraria,*
Kirkaldy, Cat. Hemip., i, p. 275, 1909, Tribe *Tetyrini.*
Zimmer, Univ. Neb. Studies, xi, p. 239, 1912, Tribe *Tetyrini.*

Genus **Tetyra** Fabr.
Orthotype *antillarum* Kirk.

Fabricius, Syst. Rhyng., p. 128, 1803.
Wolff, Icon. Cimic., v. p. vii, 1811.
Stål, Of. Vet. Akad. Forh., xxiv, p. 492, 1867.
Stål, Enum. Hemip., i, p. 4, 1870. (Systematic.)
Distant, Biol. Centr. Am., Heter., i, p. 13, 1880.
Schouteden, Genera Ins., Fasc. 24, pp. 44, 47, 1904. (Description.)
Macraulax Dallas, List of Hemip., i, pp. 5, 36, 1851. (Haplotype *bipunc-*
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 41, 1889. [*tata* H.S.)

1. **Tetyra antillarum** Kirk.

Kirkaldy, Cat. Hemip., i, p. 284, 1909. (n.n. for *arcuata* Fabr.)
arcuata (Fabricius), Ent. Syst., iv, p. 83, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 134, 1803.
Burmeister, Handb. d. Ent., ii, p. 393, 1835, *Pachycoris.*
Germar, Zeit. f. Ent., i, p. 92, 1839, *Pachycoris.*
Schjodte, Kroy. Nat. Tidskr., iv, p. 292, 1842, *Pachycoris.*
Walker, Cat. Heter., i, p. 48, 1867, *Pachycoris.*
Stål, Hemip. Fabr., i, p. 13, 1868.
Stål, Enum. Hemip., i, p. 4, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 13, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 11, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 47, 1904.
Localities: Fla. (West Indies, Mexico.)

2. **Tetyra robusta** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 383, 1897.
Localities: Ariz. (Mexico.)

3. **Tetyra bipunctata** (H.S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 87, fig. 420, 1839, *Pachycoris*.
Dallas, List of Hemip., i, p. 36, pl. 1, fig. 4, 1851, *Macraulax*.
Stål, Enum. Hemip., i, p. 4, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 13, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 11, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 47, 1904.
Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 48, 1912.
tristis (Uhler), Proc. Ent. Soc. Phila., i, p. 21, 1861, *Macraulax*.
Localities: N. Y., N. J., Md., D. C., N. C., Texas. (Mexico.)

Genus **Pachycoris** Burm.
Logotype *torridus* Scop.

Burmeister, Handb. d. Ent., ii, p. 391, 1835.
Hahn, Wanz. Ins., iii, p. 26, 1835.
Germar, Zeit. f. Ent., i, p. 80, 1839.
Blanchard, Hist. des Ins., Hémip., p. 155, 1840.
Amyot and Serville, Hémip., p. 37, 1843.
Spinola, Tavola Sinot, p. 29, 1850.
Stål, Of. Vet. Akad. Forh., xxiv, p. 492, 1867.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., pp. 16, 25, 1868.
Stål, Enum. Hemip., i, pp. 4, 5, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 14, 1880.
Schouteden, Genera Ins., Fasc. 24, p. 48, 1904. (Names *torridus* Scop. type.)

4. **Pachycoris torridus** (Scop.)

Scopoli, Annus V, Hist. Nat., p. 110, 1772, *Cimex*.
Gmelin, *in* Linnaeus Syst. Nat., Edn. 13, i, pt. 4, p. 2134, 1788, *Cimex*.
Stål, Enum. Hemip., i, p. 5, 1870 (var. a. and c.).
Berg, Hemip. Argent., p. 25, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 14, pl. 1, fig. 1, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
Breddin, Wien. Ent. Zeit., xxv, p. 190, fig. 3, 1906.
†*fabricii* (Tigny), Hist. d'Ins., Edn. 2, iv, p. 290, fig. 6, 1813, *Pentatoma*.
Burmeister, Handb. d. Ent., ii, p. 392, 1835.
Hahn, Wanz. Ins., iii, p. 27, fig. 249, 1835.
Germar, Zeit. f. Ent., i, p. 84, 1839.
Blanchard, Hist. d'Ins., iv, p. 155, 1840.
Amyot and Serville, Hémip., p. 38, 1843.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 273, 1876.

a. var. **aquila** H.S.
Herrich-Schaeffer, Wanz. Ins., v, p. 7, fig. 463, 1839.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
vars. *i* and *k*, Stål, Enum. Hemip., i, p. 6, 1870.
var. *i*, Distant, Biol. Centr. Am., Heter., i, p. 16, pl. 1, fig. 7, 1880.

b. var. **decoratus** (Perty).
Perty, Del. Anim., p. 164, pl. 33, fig. 1, 1830, *Scutellera*.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 25, 1866.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
†*klugii* Herrich-Schaeffer, Wanz. Ins., iv, p. 5, fig. 347, 1839 (part).
aeneicentris (Vollenhoven), Fauna Ent. Neerl., i, p. 7, pl. 1, fig. 3, 1863,
var. *f*, *g*, *h*, Stål, Enum. Hemip., i, p. 6, 1870. [*Poecilocoris*.
Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, figs. 5, 6, 1880.

c. var. **klugii** Burm.
Burmeister, Handb. d. Ent., ii, p. 392, 1835.
Germar, Zeit. f. Ent., i, p. 85, 1839.
Amyot and Serville, Hémip., p. 38, 1843.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
Breddin, Wien. Ent. Zeit., xxv, p. 189, fig. 2, 1906.
var. *c*, Stål, Enum. Hemip., i, p. 6, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, fig. 4, 1880.

d. var. **linnaei** Westw.
Westwood, Hope Cat., i, p. 12, 1837.
Schouteden, Genera Inst., Fasc. 24, p. 49, 1904.
var. *a*, Stål, Enum. Hemip., i, p. 5, 1870 (part).
stallii Uhler, Proc. Am. Ent. Soc., ii, p. 159, 1863.

e. var. **schaefferi** Schout.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
†*Klugi* Herrich-Schaeffer, Wanz. Ins., iv, p. 5, fig. 348, 1839 (part).
var. *d*, Stål, Enum. Hemip., i, p. 6, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 15, pl. 1, figs. 2, 3, 1880.

f. var. **schousboei** (Fabr.).
Fabricius, Syst. Rhyng., p. 132, 1803, *Tetyra*.
Burmeister, Handb. d. Ent., ii, p. 392, 1835.
Germar, Zeit. f. Ent., i, p. 83, 1839.
Schjodti, *in* Kroyer, Nat. Tidskr., iv, p. 288, 1842, *Tetyra*.
Schouteden, Genera Ins., Fasc. 24, p. 49, 1904.
†*fabricii* Herrich-Schaeffer, Wans. Ins., iv, p. 6, fig. 349, 1839.
var. *b*, Stål, Enum. Hemip., i, p. 5, 1870.
Localities: Calif. (Neotropical.)

Genus **Chelysoma** Bergr.
Logotype *variabilis* (H.S.)

Bergroth, Rev. d'Ent., x, p. 235, 1891. (n.n. for *Orsilochus* Stål.)
Schouteden, Genera Ins., Fasc. 24, p. 52, 1904. (Names *variabilis* type.)
Kirkaldy, Cat. Hemip., i, p. 283, 1909. (Names *variabilis* type.)
‖*Orsilochus* Stål, Of. Vet. Akad. Forh., xxiv, p. 493, 1867.
Stål, Enum. Hemip., i, p. 9, 1870. (Systematic.)
Distant, Biol. Centr. Am., Heter., i, p. 16, 1880.

5. **Chelysoma guttatum** (H.S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 4, fig. 345, 1839, *Pachycoris*.
Germar, Zeit. f. Ent., i, p. 96, 1839, *Pachycoris*. (Description.)
Stål, Enum. Hemip., i, p. 9, 1870, *Orsilochus*.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904, *Orsilochus*.
Schouteden, Genera Ins., Fasc. 24, p. 52, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.
Localities: N. C., S. C., Ga., Fla.

Genus **Camirus** Stål
Logotype *conicus* Germ.

Stål, Rio Jan. Hemip., ii, p. 57, 1862.
Distant, Biol. Centr. Am., Heter., i, p. 24, 1880, [pseudotype.)
Schouteden, Genera Ins., Fasc. 24, pp. 43, 55, 1904. (Names *porosus* Germ.
‖*Zophoëssa* Dallas, List of Hemip., i, p. 43, 1851. (Haplotype *porosus*
Stål, Stet. Ent. Zeit., xxiii, p. 83, 1862. [Germ.)
Stål, Of. Vet. Akad. Forh., xxiv, p. 491, 1867.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 15, 1868.

6. **Camirus porosus** (Germ.)

Germar, Zeit. f. Ent., i, p. 108, 1839, *Pachycoris*.
Dallas, List of Hemip., i, p. 43, 1851, *Zophoëssa*.
Stål, Enum. Hemip., i, pp. 17, 1870, *Zophoëssa*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Zophoëssa*.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 55, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
pallatus Distant, Biol. Centr. Am., Heter., i, p. 316, pl. 30, fig. 9, 1889.
Localities: Fla., Texas, Calif. (Nearctic.)

7. **Camirus consocius** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Zophoëssa*.
Schouteden, Genera Ins., Fasc. 24, p. 55, 1904.
Barber, Brookl. Inst., Sci. Bul., i, p. 256, 1906.
Localities: Texas, Ariz., Calif.

Genus **Acantholoma** Stål
Haplotype *denticulata* Stål

Stål, Of. Vet. Akad. Forh., xxiv, p. 491, 1867 (invalid here).
Stål, Enum. Hemip., i, p. 17, 1870 (valid here).
Schouteden, Genera Ins., Fasc. 24, pp. 43, 55, 1904.

8. **Acantholoma denticulata** Stål

Stål, Enum. Hemip., i, p. 17, 1870.
Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 16, 77, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 56, pl. 4, fig. 2, 1904.
Localities: Ind., Ill., Kan.

Genus **Diolcus** Mayr.
Logotype *irroratus* (Fabr.)

Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 904, 1864.
Stål, Of. Vet. Akad. Forh., xxiv, p. 493, 1867.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 26, 1868. [type.)
Schouteden, Genera Ins., Fasc. 24, pp. 44, 56, 1904. (Names *irroratus* Fabr.

9. **Diolcus irroratus** (Fabr.)

Fabricius, Syst. Ent., p. 699, 1775, *Cimex.*
Fabricius, Ent. Syst., iv, p. 88, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 136, 1803, *Tetyra.*
Germar, Zeit. f. Ent., i, p. 99, 1839, *Pachycoris.*
Herrich-Schaeffer, Wanz. Ins., v, p. 55, fig. 500, 1839, *Pachycoris.*
Schjodte, *in* Kroyer, Nat. Tidskr., iv, p. 297, 1842, *Pachycoris.*
Guerin, *in* Sagra, Hist. de l'Isl. de Cuba, Ins., p. 362, 1857, *Scutellera.*
Dallas, List of Hemip., i, p. 37, 1851, *Symphylus.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
Stål, Enum. Hemip., i, p. 10, 1870.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 6, 1907.

nebulosa (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 32, pl. Hémip. 5, fig. [4, 1805, *Scutellera.*
Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.

hebraica (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 81, pl. Hémip. 7, fig. [1, 1805, *Scutellera.*
Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris.*

cordigera (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 234, pl. Hémip. 5b, [fig. 7, 1805, *Scutellera.*
Mayr, Verh. Zool.-Bot., Ges. Wien, xiv, p. 905, 1864.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.

flavescens (Westwood), Hope Cat., i, p. 12, 1837, *Pachycoris.*
Germar, Zeit. f. Ent., i, p. 100, 1839, *Pachycoris.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 905, 1864.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 29, 1868.
Localities: Fla. (West Indies.)

10. **Diolcus chrysorrhoeus** (Fabr.)

Fabricius, Syst. Rhyng., p. 138, 1803, *Tetyra.*
Germar, Zeit. f. Ent., i, p. 95, 1839, *Pachycoris.*
Herrich-Schaeffer, Wanz. Ins., v. p. 6, fig. 460, 1839, *Pachycoris.*
Uhler, *in* Say's Compl. Works, i, p. 310, 1859, *Pachycoris.*
Walker, Cat. Heter., i, p. 46, 1867, *Pachycoris.*
Stål, Enum. Hemip., i, p. 11, 1870.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.

viridipunctata (Say), Heter. N. Harm., p. 1, 1831; Fitch reprint, p. 755, [*Scutellera.*
Say, Compl. Writ., i, p. 310, *Scutellera.*
Localities: S. C., Fla., Miss., Texas.

Genus **Stethaulax** Bergr.
Haplotype *marmoratus* (Say)

Bergroth, Revue d'Ent., x, p. 235, 1891. (n.n. for *Aulacostethus* Uhl.)
Schouteden, Genera Ins., Fasc. 24, p. 57, 1904.
Kirkaldy, Cat. Hemip., i, p. 279, 1909.

Aulacostethus Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 93, 1871; xix, [p. 367, 1878.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 12, 1904.

11. **Stethaulax marmoratus** (Say)

Say, Heter. N. Harm., p. 2, 1831; Fitch reprint, p. 755; Compl. Writ., i, 310, [*Tetyra.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 94, 1871; xix, p. 368, 1878, *Aulaco-*
Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 12, 76, 1904. [*stethus.*
Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 49, 1912.
simulans (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876, *Aulacostethus.*
Van Duzee., Trans. Am. Ent. Soc., xxx, pp. 13, 76, 1904.
Localities: N. Y., N. J., Md., N. C., Ga., Texas, Calif.

Genus **Sphyrocoris** Mayr.

Haplotype, *obliquus* (Germ.)

Mayr, Verh. Zool.-Bot. Ges. Wien, xiv, p. 904, 1864.
Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867.
Mayr, Reise Freg. Novara, Zool. ii, Hemip. pp. 16, 26, 1868.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 58, 1904.

12. **Sphyrocoris obliquus** (Germ.)

Germar, Zeit. f. Ent., i, p. 94, 1839, *Pachycoris.*
Herrich–Schaeffer, Wanz. Ins., v, p. 54, fig. 491, 1839, *Pachycoris.*
Dallas, List Hemip., i, p. 35, 1851, *Pachycoris.*
Stål, Stet. Ent. Zeit., xxiii, p. 81, 1862, *Homaemus.*
Walker, Cat. Heter., i, p. 48, 1867, *Pachycoris.*
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 26, 1868.
Stål, Enum. Hemip., i, p. 15, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 273, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 21, 1880.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 224, 1894.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 44, 1899.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 59, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.
delineatus (Walker), Cat. Heter., i, p. 48, 1867, *Pachycoris.*
Localities: Fla., Texas, Ariz., Calif. (West Indies, Mexico.)

13. **Sphyrocoris punctellus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 81, 1862, *Homaemus.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867.
Stål, Enum. Hemip., i, p. 15, 1870.
Distant Biol. Centr. Am., Heter., i, p. 21, pl. 2, fig. 5, 1880.
Schouteden, Genera Ins., Fasc., 24, p. 59, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
Localities: Ariz. (Mexico.)

Genus **Homaemus** Dall.

Logotype *exilis* (H.S.) = *aeneifrons* (Say)

Dallas, List Hemip., i, p. 36, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 494, 1867.
Stål, Enum. Hemip., i, p. 14, 1870. (Systematic.)

Distant, Biol. Centr. Am., Heter., i, p. 19, 1890.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 13, 1904. (Key.)
Schouteden, General Ins., Fasc. 24, pp. 45, 59, 1904. (Names *aeneifrons* Say
Zimmer, Univ. Neb. Studies, xi, p. 239, 1912. [type.)

14. **Homaemus aeneifrons** (Say)

Say, Long's Exp. to St. Peter's River, ii, p. 299, 1824, *Scutellera.*
Say, Compl. Writ., i, p. 199, *Scutellera.*
Stål, Enum. Hemip., i, p. 15, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876; iii, p. 365, 1877; iv, p. 503,
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878. [1878.
Distant, Biol. Centr. Am., Heter. i, p. 20, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 21, 1885.
Gillette & Baker, Hemip. Colo., p. 9, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 13, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 59, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.
Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 25, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 239, 1912.
exilis (Herrich-Schaeffer), Wanz. Ins., iv, p. 5, fig. 346, 1839, *Pachycoris.*
Germar, Zeit. f. Ent., i, p. 98, 1839, *Pachycoris.*
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., Va., Wis., Neb., Dak., Colo., N. Mex., Man., Calif., Vanc. Isd.

15. **Homaemus bijugis** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872. (Name only.)
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872. (Description.)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876; iii, p. 365, 1877.
Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 13, 76, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 60, pl. 5, fig. 1, 1904.
Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.
consors Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 272, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 14, 76, 1904.
Kirkaldy, Cat. Hemip., i, p. 279, 1909.
Localities: Dak., Ia., Neb., Kan., Colo., Utah, N. Mex., Nev., Ariz., Calif.

16. **Homaemus parvulus** (Germ.)

Germar, Zeit. f. Ent., i, p. 107, 1839, *Pachycoris.*
Herrich-Schaeffer, Wanz. Ins., v, p. 54, fig. 501, 1839, *Pachycoris.*
Dallas, List of Hemip., i, p. 36, 1851.
Kirkaldy, Cat. Hemip., i, p. 279, 1909.
†*grammica* (Wolff), Icon. Cimic., v, p. 172, fig. 166, 1811, *Tetyra.*
Stål, Enum. Hemip., i, p. 14, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 19, 1880.
Gillette & Baker, Hemip. Colo., p. 9, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 14, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 60, 1904.
Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
Localities: N. C., Fla., Kan., Colo., Texas, Calif.

17. **Homaemus proteus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 82, 1862.
Stål, Enum. Hemip., i, p. 15, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 20, pl. 2, figs. 3, 4, 1880.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 349, 1904.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 15, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 60, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 255, 1906.
Localities: Texas, N. Mex., Ariz., Calif.

18. **Homaemus variegatus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 3, 1914.
Localities: Calif.

Subfamily ODONTOTARSINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872, Div. *Odontotarsaria.*
Stål, Enum. Hemip., iii, pp. 4, 26, 1873, Div. *Odontotarsaria.* (Key.)
Distant, Fauna Br. Ind., Rhyn., i, p. 67, 1902, Div. *Odontotarsaria.*
Schouteden, Genera Ins., Fasc. 24, pp. 4, 69, 1904. (Key.)
Oshanin, Verz. Palae. Hemip., i, p. 33, 1906.
Kirkaldy, Cat. Hemip., i, p. 262, 1909, Tribe *Odontotarsini.*
Zimmer, Univ. Neb. Studies, xi, p. 240, 1912, Tribe *Odontotarsini.*

Eurygastraria Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872.
Stål, Enum. Hemip., iii, pp. 4, 28, 1873 (as Division; Key).
Distant, Fauna Br. Ind., Rhyn., i, p. 68, 1902 (as Division).
Oshanin, Verz. Palae. Hemip., i, p. 40, 1906 (as Division).
Oshanin, Kat. Palae. Hemip., p. 5, 1912 (as Tribe).

Odontoscelaria Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 33, 1872 (as
Stål, Enum. Hemip., iii, pp. 4, 30, 1873 (as Division) [Division.)
Distant, Fauna Br. Ind., Rhyn., i, p. 70, 1902 (as Division).
Oshanin, Verz. Palae. Hemip., i, p. 29, 1906 (as Division).
Oshanin, Kat. Palae. Hemip., p. 4, 1912 (as Tribe).

Genus **Eurygaster** Lap.
Orthotype *hottentotus* (Fabr.)

Laporte, Essai Classif. Syst. Hémip., pp. 68, 69, 1832.
Spinola, Essai sur les Hémip., p. 365, 1837 (1840).
Amyot and Serville, Hémip., p. 51, 1843.
Kolenati, Melet. Ent., iv, p. 9, 1846.
Spinola, Tavola Sinot., p. 28, 1850.
Dallas, List of Hemip., i, p. 47, 1851.
Flor, Rhyn. Livl., i, p. 84, 1860.
Fieber, Europ. Hemip., pp. 84, 368, 1861.
Stål, Hemip. Afr., i, p. 61, 1864.
Douglas and Scott, Br. Hemip., p. 64, 1865.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 16, 1868.
Stål, Of. Vet. Akad. Forh., xxix, p. 33, 1872.
Stål, Enum. Hemip., iii, p. 29, 1873.
Atkinson, Jl. Asiatic Soc. Bengal, lvi, p. 187, 1887.
Schouteden, Genera Ins., Fasc. 24, pp. 70, 71, 1904.

†*Tetyra* Burmeister, Handb. d. Ent., ii, p. 389, 1835.
Germar, Zeit. f. Ent., i, p. 72, 1839.
Blanchard, Hist. des Ins., Hémip., p. 155, 1840.
Gorski, Anal. Ent., i, p. 38, 1852. [Linn.)
Bellocoris Hahn, Wanz. Ins., ii, p. 42, 1834. (Logotype *Cimex maurus* Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840. (Cites [*maurus* as type.)
Kirkaldy, Cat. Hemip., i, p. 270, 1909. (Names *purpureolineatus* Rossi [pseudotype.)

19. **Eurygaster alternatus** (Say)

Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra*.
Germar, Zeit. f. Ent., i, p. 74, 1839, *Tetyra*.
Dallas, List of Hemip., i, p. 47, 1851.
Stål, Enum. Hemip., i, p. 18, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876.
Uhler *in* Wheeler's Rept. Chief. Eng., for 1877, p. 1322.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 503, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 23, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 18, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 72, 1904.
Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.
nicoletanensis Provancher, Nat. Can., iv, p. 73, 1872.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ill., Neb., Dak., Mont., Colo., N. Mex., Utah, Calif., Vanc. Isd.

20. **Eurygaster shoshone** Kirk.

Kirkaldy, Cat. Hemip., i, p. 273, 1909. (n.n. for *carinatus* Van D.)
‖*carinatus* Van Duzee, Trans. Am. Ent. Soc., xxx, p. 18, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 72, 1904.
Banks, Cat. Neare. Heter., p. 97, 1910.
Localities: Idaho, Utah, Nevada.

Genus **Fokkeria** Schout.

Haplotype *crassa* Schout. = *producta* (Van D.)

Schouteden, Ann. Soc. Ent. Belg., xlviii, p. 301, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 83, 1904.

21. **Fokkeria producta** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 20, 1904, *Odontoscelis*.
Schouteden, Genera Ins., Fasc. 24, p. 84, pl. 5, fig. 1, 1904.
crassa Schouteden, Ann. Soc. Ent. Belg., xlviii, p. 301, 1904.
Localities: Colo.

Genus **Phimodera** Germ.

Logotype *galgulina* H.S.

Germar, Zeit. f. Ent., i, p. 60, 1839.
Amyot and Serville, Hémip., p. 56, 1843.
Gorski, Anal. Ent., i, p. 49, 1852.

Flor, Rhyn. Livl., i, p. 80, 1860.
Fieber, Europ. Hemip., p. 374, 1861.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 19, 1868.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 32, 1872.
Stål, Enum. Hemip., iii, p. 27, 1873.
Schouteden, Genera Ins., Fasc. 24, p. 84, 1904. (Names *galgulina* H.S. type.)
Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 9, 1906. (Monograph.)

22. **Phimodera torrida** Reut.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 17, pl. 1, fig. 3; pl. 2, fig. 3, 1906.
Locality: Nevada.

23. **Phimodera torpida** Walk.

Walker, Cat. Heter., i, p. 75, 1867.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.
Schouteden, Genera Ins., Fasc. 24, p. 85, 1904.
Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 22, pl. 1, fig. 7; pl. 2, fig. 8, 1906.
a. var. **fusco-testacea** Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 23, 1906.
b. var. **obscura** Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 23, 1906.
Localities: Sask., Colo.

24. **Phimodera binotata** (Say)

Say, Long's 2d Exp., ii, p. 298, 1824; Compl. Writ., i, p. 198, *Scutellera.*
Uhler, Check List, p. 2, 1886.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904.
Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 42, 1906.
Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.
Localities: Neb., Colo.

Genus **Euptychodera** Bergr.

Haplotype *corrugata* (Van D.)

Bergeroth, Mem. Soc. Ent. Belg., xv, p. 143, 1908. (n.n. for *Ptychodera* Reut.)
‖*Ptychodera* Reut., Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 44, 1906.

25. **Euptychodera corrugata** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 16, 1904, *Phimodera.*
Schouteden, Genera Ins., Fasc. 24, p. 85, 1904, *Phimodera.*
Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 8, p. 45, pl. 1, fig. 20; pl. 2, figs. 20, [21, 1906, *Ptychodera.*
Localities: Colo., Utah.

Genus **Vanduzeeina** Schout.

Orthotype *balli* (Van D.)

Schouteden, Genera Ins., Fasc. 24, p. 85, 1904.

26. **Vanduzeeina balli** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 19, 1904, *Odontoscelis.*
Schouteden, Genera Ins., Fasc. 24, p. 86, 1904.
Localities: Colo., N. Mex., Calif.

Family CYDNIDAE (Billbg.)

Billberg, Enum. Ins., p. 70, 1820, *Cydnides.*
Schioedte, *in* Kroyer, Nat. Tidskr., ii, p. 454, 1849, *Cydnini.*
Spinola, Tavola Sinot., pp. 30, 36, 1850. Subfam. *Cydnoideae.*
Fieber, Europ. Hemip., pp. 27, 361, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862, *Cydnida.*
Stål, Of. Vet, Akad. Forh., xxvii, p. 614, 1870, *Cydnina.*
Stål, Enum. Hemip., v, p. 17, 1876, Subfam. *Cydnina.*
Berg, Hemip. Argent., p. 9, 1879, Subfam. *Cydnina.*
Distant, Biol. Centr. Am., Heter., i, p. 1, 1880, *Cydninae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 81, 1902, Subfam. *Cydninae.*
Kirkaldy, Can. Ent., xl, p. 359, 1908.
Horvath, Ann. Mus. Natl. Hung., ix, p. 6, 1911.
Oshanin, Kat. Palae., Hemip., p. 1, 1912.
Thyreocoridae Kirkaldy, Can. Ent., xl, p. 364, 1908.
Kirkaldy, Cat. Hemip., i, p. xxxix, 1909.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A. No. 6, pp. 45, 61, 1912.

Subfamily THYREOCORINAE (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 5, 1907, Family *Thyreocoridae.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909, Family *Thyreocoridae.*
Kirkaldy, Cat. Hemip., p. xxxix, 1909, Tribe *Thyreocorini.*
Banks, Cat. Nearc. Hemip., p. 101, 1910, Family *Thyreocoridae.*
Corimelaenidae Uhler, *in* Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
Uhler, *in* Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876; iii, p. 365, 1877; iv, p. 503, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878.
Uhler, Check List, p. 2, 1886.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 11, 1893.

Genus **Thyreocoris** Schr.

Logotype *scarabaeoides* (Linn.)

Schrank, Fauna Boica, p. 46, 1801.
Hahn, Wanz. Ins., ii, p. 46, 1834.
Spinola, Essai sur les Hémip., p. 369, 1840.
Kolenati, Melet. Ent., iv, p. 8, 1846.
Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.
Stål, Hemip. Fabr., i, p. 8, 1868.
Stål, Enum. Hemip., v, p. 22, 1876.
Berg, Hemip. Argent., p. 16, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 19, 1885.
Oshanin, Verz. Palae. Hemip., i, p. 6, 1906.
Oshanin, Kat. Palae. Hemip., p. 1, 1912. (Names *scarabaeoides* Linn. type.)
Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
†*Odontoscelis* Burmeister, Handb. d. Ent., ii, p. 385, 1835.
Germar, Zeit. f. Ent., i, p. 36, 1839.
Herrich-Schaeffer, Wanz. Ins., v, p. 33, 1839.
Blanchard, Hist. des Ins., Hémip., p. 161, 1840.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840. (Names
Spinola, Tavola Sinot., p. 29, 1850 (in part). [*scarabaeoides* pseudotype.)
Gorski, Anal. Ent., i, p. 55, 1852. (Subdiv. II.)
Corimelaena White, Mag. Nat. Hist., n.s. iii, p. 539, 1839. (*Orthotype*
Dallas, List of Hemip., i, p. 56, 1851. [*lateralis* Fabr.)
Dohrn, Cat. Hemip., p. 5, 1859.
Stål, Rio Jan. Hemip., i, p. 8, 1860.
Fieber, Europ. Hemip., p. 364, 1861.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 10, 1868.
Uhler *in* Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876.
Uhler, Check List, p. 2, 1886.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 11, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 3, 1904. (Key.)
‡*Coreomelas* Amyot and Serville, Hemip., p. 67, 1843.
Flor, Rhyn. Livl., i, p. 149, 1860.
Galgupha Amyot and Serville, Hemip., p. 68, 1843.

27. **Thyreocoris ater** (Am. & Serv.)

Amyot and Serville, Hémip., p. 68, 1843, *Galgupha.*
Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 48, 1864.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878, *Corimelaena.*
Uhler, Check List, p. 2, 1886, *Corimelaena.*
Van Duzee, Can. Ent., xxi, p. 2, 1889, *Corimelaena.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894.
‖*helopioides* (Wolff), Icon. Cimic., v, p. 174, fig. 168, 1811, *Tetyra.*
†*unicolor* (Germar), Zeit. f. Ent., i, p. 37, 1839, *Odontoscelis.*
Herrich-Schaeffer, Wanz. Ins., v, pp. 12, 34, fig. 470, 1839, *Odontoscelis.*
Dallas, List of Hemip., i, p. 57, 1851, *Corimelaena.*
Stål, Enum. Hemip., v, p. 23, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 20, 1885.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 13, 1893, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 4, 1904, *Corimelaena.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 153, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 244, 1912.
Localities: Quebec, Ont., Me., Conn., N. Y., N. J., N. C., Tenn.,
Wisc., Neb., Colo., Texas, Manitoba.
(*?Thyreocoris unicolor* Palisot-Beauvois, p. 33, pl. 5, fig. 5, 1805, *Scutellera.*
["South States."]

28. **Thyreocoris nitiduloides** (Wolff)

Wolff, Icon. Cimic., iii, p. 98, fig. 92, 1902, *Cimex.*
Germar, Zeit. f. Ent., i, p. 37, 1839, *Odontoscelis.*
Herrich-Schaeffer, Wanz. Ins., v, pp. 12, 33, fig. 471, 1839, *Odontoscelis.*
Dallas, List of Hemip., i, p. 56, 1851, *Corimelaena.*
Uhler, in Hayden's Surv. Terr., Rept. for 1871, p. 392, 1872, *Corimelaena.*
Stål, Enum. Hemip., v, p. 23, 1876. [*Corimelaena.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 269, 1876; iv, p. 365, 1877,
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 366, 1878, *Corimelaena.*
Distant, Biol. Centr. Am., Heter., i, p. 10, 1880.
Lethierry & Severin, Cat. Hémip., i, p. 12, 1893, *Corimelaena.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 5, 1904, *Corimelaena.*
Zimmer, Univ. Neb. Studies, xi, p. 245, 1912.
histeroides (Say), Hemip. N. Harm., p. 2, 1831; Fitch reprint, p. 756; [Compl. Writ., i, p. 311, *Thyreocoris*
Localities: N. Y., N. J., Pa., N. C., Mo., N. D., Neb., Kan., Colo., Texas.

28½. **Thyreocoris rastratus** (Stål)

Stål, Rio Jan. Hemip., i, p. 8, 1860, *Corimelaena.*
Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.
Stål, Enum. Hemip., v, p. 23, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 10, pl. 3, fig. 5, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxvii, p. 343, 1901, *Corimelaena.*
Localities: Texas (Barber *in litt.*) (Neotropical.)

29. **Thyreocoris anthracinus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena.*
Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.
Localities: Neb., Colo., N. Mex., Idaho, Calif., Vanc. Isd.

30. **Thyreocoris denudatus** (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 157, 1863, *Corimelaena.*
Localities: La.

31. **Thyreocoris niger** (Dall.)

Dallas, List of Hemip., i, p. 57, 1851, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906; pt. 2, p. 158, 1907;
Zimmer, Univ. Neb. Studies, xi, p. 245, 1912. [*Corimelaena.*
Localities: Ont., Kan., Neb., Colo., Ariz.

32. **Thyreocoris ciliatus** (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 156, 1863, *Corimelaena.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 6, 1904, *Corimelaena.*
Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.
Localities: Fla., Neb., Kan., Colo., Utah, Ariz., Calif., Oregon.

33. **Thyreocoris coerulescens** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena.*
Distant, Biol. Centr. Am., Heter., i, p. 10, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 7, 1904, *Corimelaena.*
cyanea (Uhler), Proc. Am. Ent. Soc., ii, p. 157, 1863, *Corimelaena.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 270, 1876, *Corimelaena.*
cyanconigra (Walker), Cat. Heter., i, p. 78, 1867, *Corimelaena.*
Localities: Colo., Ariz., Calif. (Mexico.)

34. **Thyreocoris lateralis** (Fabr.)

Fabricius, Syst. Rhyng., p. 142, 1803, *Tetyra.*
Wolff, Icon. Cimic., v, p. 175, fig. 169, 1811, *Tetyra.*
Germar, Zeit. f. Ent., i, p. 39, 1839, *Odontoscelis.*

Herrich-Schaeffer, Wanz. Ins., v, pp. 13, 34, fig. 473, 1839, *Odontoscelis.*
White, Mag. Nat. Hist., n.s. iii, p. 439, 1839, *Corimelaena.*
Stål, Enum. Hemip., v, p. 23, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena.*
Distant, Biol. Centr. Am., Heter., i, p. 11, 1880.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 246, 1912.
gilletti (Van Duzee), Trans. Am. Ent. Soc., xxx, p. 8, 1904, *Corimelaena.*
Bueno & Brimley, Ent. News, xviii, p. 441, 1907, *Corimelaena.*
Bergroth, Mém. Soc. Ent. Belg., xv, p. 139, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910.
Localities: Mass., R. I., N. Y., Pa., N. J., Md., D. C., N. C., Fla., Ohio, Mich., Ill., Neb., Kan., Okl., Texas. (Mexico.)

35. **Thyreocoris montanus** Van D.

Van Duzee, Ent. News, xx, p. 231, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 247, 1912.
†*lateralis* (Van Duzee), Trans. Am. Ent. Soc., xxx, p. 7, 1904, *Corimelaena.*
Localities: Neb., Colo., Utah, Wy., Calif., Wash.

36. **Thyreocoris extensus** (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 155, 1863, *Corimelaena.*
Uhler, *in* Hayden's Surv. Terr., Rept. for 1871, p. 393, 1872, *Corimelaena.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena.*
Localities: Dak., Colo., Utah, N. Mex., Ariz., Calif., Oregon.

37. **Thyreocoris pulicarius** (Germ.)

Germar, Zeit. f. Ent., i, p. 39, 1839, *Odontoscelis.*
Herrich-Schaeffer, Wanz. Ins., v, p. 34, 1839, *Odontoscelis.*
Dallas, List of Hemip., i, p. 59, 1851, *Corimelaena.*
Stål, Enum. Hemip., v, p. 23, 1876. [*melaena.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876; iv, p. 503, 1878, *Cori-*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 367, 1878, *Corimelaena.*
Distant, Biol. Centr. Am., Heter., i, p. 11, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 21, 1885.
Uhler, Proc. Zool. Soc. Lond., for 1894, p. 170.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
Van Duzee, Can. Ent., xli, p. 369, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 247, 1912.
marginella (Dallas), List of Hemip., i, p. 59, 1851, *Corimelaena.*
Distant, Biol. Centr. Am., Heter., i, p. 308, pl. 30, fig. 1, 1889. [*gupha.*
flavomarginata (Thomas), Trans. Ill. St. Agr. Soc., v, p. 455, 1865, *Gal-*
†*tibialis* Uhler, Check List, p. 2, 1886, *Corimelaena.*
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Md., D. C., Ga., Fla., Miss., La., Minn., Dak., Neb., Kan., Mo., Colo., Texas, Br. Am.

38. **Thyreocoris minutus** (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 155, 1863, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 76, 1904, *Corimelaena.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 5, 1907.
Localities: Fla., Texas. (West Indies.)

39. **Thyreocoris obtusus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 225, 1894, *Corimelaena.*
Localities: Texas. (Mexico.)

40. **Thyreocoris renormatus** (Uhl.)

Uhler, Hemip. Colo., p. 11, 1895, *Corimelaena.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 9, 1904, *Corimelaena.*
†*albipennis* (Uhler), Hemip. Colo., p. 10, 1895, *Corimelaena* (young).
Localities: Colo.

41. **Thyreocoris guttiger** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 94, 1862.
Stål, Enum. Hemip., v, p. 24, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 11, pl. 2, fig. 16, 1880.
Barber, Brookl. Inst., Sci. Bul., i, p. 255, 1906.
Osborn and Drake, Ohio Nat., xv, p. 541, 1915.
Localities: Texas. (Neotropical.)

42. **Thyreocoris sayi** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 10, 1904, *Corimelaena* (n.n. for
Zimmer, Univ. Neb. Studies, xi, p. 247, 1912. [*albipennis* Say.)
‖*albipennis* Say, Heter. N. Harm., p. 2, 1831, Fitch reprint p. 756.
Say, Compl. Writ., i, p. 311.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 271, 1876, *Corimelaena.*
Osborn, Ent. News, iv, p. 91, 1893, *Corimelaena.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 121, 1894, *Corimelaena.*
Localities: Neb., Colo.

Subfamily CYDNINAE (Dallas)

Dallas, List of Hemip., i, p. 109, 1851, Family *Cydnidae.*
Stål, Hemip. Afr., i, p. 18, 1864, Family *Cydnida.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876, Family *Cydnidae.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 366, 1877, Family *Cydnidae.*
[(Monograph.)
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 26, 1881, *Cydnides.* (Monograph.)
Puton, Cat. Palae. Hemip., Edn. 3, p. 8, 1886, Tribe *Cydnini.*
Uhler, Check List, p. 3, 1886, Family *Cydnidae.*
Lethierry and Severin, Cat. Génl. Hémip., i, p. 60, 1893, Subfamily *Cydnidae.*
Kirkaldy, Fauna Hawaiien., iii, p. 172, 1902, Subfamily *Cydninae.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904, Subfamily *Cydnidae.*
Kirkaldy, Cat. Hemip., i, p. xxxix, 1909, Tribe *Cydnini.*
Banks, Cat. Neare. Hemip., p. 98, 1910, Family *Cydnidae.*
Zimmer, Univ. Neb. Studies, xi, p. 240, 1912.

TRIBE *CYDNINI* (Stål)

Stål, Hemip. Afr., i, p. 18, 1864, Subfamily *Cydnida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 6, 1868, Subfamily *Cydnida.*

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 366, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 33, 1881, *Cydnides.*
Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.

Genus **Cyrtomenus** Am. & Serv.
Logotype *castaneus* Am. & Serv. = *mirabilis* (Perty)

Amyot and Serville, Hémip., p. 90, 1843.
Dallas, List of Hemip., i, pp. 110, 111, 1851.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 367, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 2, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 196, 1881.
†*Cydnus* Amyot and Serville, Hemip., p. 91, 1843.

43. **Cyrtomenus teter** (Spin.)

Spinola, Essai sur les Hémip., p. 332, 1840, *Cydnus.*
Dallas, List of Hemip., i, p. 111, 1851.
Distant, Biol. Centr. Am., Heter., i, p. 2, pl. 2, fig. 13, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 197, pl. 6, fig. 17, 1881.
Banks, Cat. Neare. Hemip., p. 99, 1910.
aethiops (Amyot and Serville), Hemip., p. 92, 1843, *Cydnus.* [(male).
excaratus Distant, Biol. Centr. Am., Heter., i, p. 2, pl. 2, fig. 12, 1880
Localities: Calif. (Neotropical.)

44. **Cyrtomenus mirabilis** (Perty)

Perty, Del. Anim. Artic., p. 166, 1834, *Cydnus.*
Stål, Enum. Hemip., v, p. 18, 1876.
Berg, Hemip. Argent., p. 10, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 3, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 199, pl. 6, fig. 19, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 226, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
mutabilis (Perty), Del. Anim. Artic., pl. 33, fig. 6, 1834, *Cydnus.*
Burmeister, Hand. d. Ent., ii, p. 375, 1835, *Cydnus.*
Dallas, List of Hemip., i, p. 112, 1851.
Herrich-Schaeffer, Wanz. Ins., p. 76, 1853, *Cydnus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876, iii, p. 367, 1877.
castaneus Amyot and Serville, Hémip., p. 91, 1843.
Stål, Enum. Hemip., v, p. 18, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 24, 1904.
crassus Walker, Cat. Heter., i, p. 147, 1867.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 227, 1899.
obtusus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 369, 1877.
umbonatus (Berg), Hemip. Argent., p. 14, 1879, *Macroscytus.*
Localities: N. J., S. C., Ga., Fla., Texas, N. Mex., Ariz., Calif. (Neotropical.)

Genus **Macroporus** Uhl.
Haplotype *repetitus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 278, 1876, iii, p. 375, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 328, 1881.

45. **Macroporus repetitus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 279, 1876, iii, p. 375, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 329, pl. 10, fig. 46, 1881.
Localities: Md., Calif.

Genus **Homaloporus** Uhl.

Haplotype *congruus* Uhler

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 376, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 330, 1881.

46. **Homaloporus congruus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 377, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 330, pl. 10, fig. 47, 1881.
Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.
Localities: Neb., Colo., Texas.

47. **Homaloporus pangaeiformis** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 331, pl. 11, fig. 48, 1881.
Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 151, 1906.
Localities: Texas(?). (Mexico.)

Genus **Aethus** Dall.

Logotype *indicus* (Westw.)

Dallas, List of Hemip., i, pp. 110, 112, 1851.
Stål, Hemip. Afr., i, pp. 19, 20, 1864.
Stål, Enum. Hemip., v, p. 18, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 378, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 4, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 423, 1881.
†*Cydnus*. Leach in Brewster's Edinb. Encyc., Am. Edn., viii, p. 710, 1832.
Fieber, Europ. Hemip., pp. 83, 363, 1861.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 9, 1868.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 145, 1882.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 65, 1894.
Distant, Fauna Br. Ind., Rhyn., i, p. 90, 1902. (Cites *nigritus* as type.)
Oshanin, Verz. Palae. Hemip., i, p. 9, 1906.
Banks, Cat. Neare. Hemip., p. 99, 1910.
Oshanin, Kat. Palae. Hemip., p. 1, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 24, 1912.
Trichosternus Mulsant and Rey, Punaise de France, Pent., p. 24, 1860.
Tominotus Mulsant and Rey, Punaise de France, Pent., p. 29, 1860 (*Haplo-*
[*type signoreti* M. & S.)
Microporus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
[(Name only.)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876. (Haplotype
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 373, 1877. [*obliquus* Uhl.)
Distant, Biol. Centr. Am., Heter., i, p. 8, 1880. [type *conformis* Uhl.)
Trichocoris Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 277, 1876. (*Haplo-*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 371, 1877.
Rhytidoporus Uhler, Bul. U. S. Geol. Geog. Surv., ii, p. 380, 1877. (*Hap-*
[*lotype indentatus* Uhl.)
Cryptoporus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 381, 1877. [Uhl.)
Bergthora Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Cryptoporus*

48. **Aethus testudinatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 276, 1876, *Microporus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 374, 1877, *Microporus.*
Distant, Biol. Centr. Am., Heter., i, p. 8, pl. 2, fig. 24, 1880, *Microporus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 424, pl. 11, fig. 53, 1881.
Localities: Ind., Colo., N. Mex., Calif. (Mexico.)

49. **Aethus conformis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 277, 1876; iii, p. 372, 1877, *Tricho-*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, i, p. 425, pl. 11, fig. 54, 1881. [*coris.*
Locality: Calif.

50. **Aethus communis** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 379, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 35, pl. 2, fig. 76, 1882.
Barber, Brookl. Inst. Sci. Bul., i, p. 256, 1906, *Cydnus.*
Localities: Fla., Texas. (West Indies.)

51. **Aethus indentatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 380, 1877, *Rhytidoporus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 38, pl. 2, fig. 80, 1882.
Localities: Fla. (West Indies.)

52. **Aethus compactus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 382, 1877, *Cryptoporus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 41, pl. 2, fig. 83, 1882.
Localities: Texas.

53. **Aethus obliquus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872, *Microporus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 276, 1876; iii, p. 373, 1877, *Microporus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 161, pl. 7, fig. 97, 1882, *Cydnus.*
Zimmer, Univ. Neb. Studies, xi, p. 241, 1912.
?Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912, *Cydnus.*
Localities: N. Y.(?), Neb., Colo., Utah, Texas, Ariz., Calif., Oregon.

54. **Aethus politus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 36, pl. 2, fig. 77, 1882.
Localities: Calif.

Genus **Pangaeus** Stål

Logotype *margo* (Dall.)

Stål, Stet. Ent. Zeit., xxiii, p. 95, 1862.
Stål, Enum. Hemip., v, p. 19, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 383, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 5, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 244, 1882, *Pangoeus.*
Provancher, Pet. Faune Ent. Can., iii, p. 28, 1885.
Zimmer, Univ. Neb. Studies, xi, pp. 23, 24, 1912.

55. **Pangaeus margo** (Dall.)

Dallas, List of Hemip., i, p. 116, 1851, *Aethus.*
Stål, Stet. Ent. Zeit., xxiii, p. 95, 1862.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 387, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 5, pl. 2, fig. 15, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 248, pl. 8, fig. 107, 1882.
Distant, Biol. Centr. Am., Heter., i, p. 306, 1889.
Distant, Am. Mag. Nat. Hist., Ser. 7, iv, p. 222, 1899.
confusus Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 249, pl. 8, fig. 108, 1882.
scitus (Walker), Cat. Heter., iii, p. 535, 1868, *Aethus*.
Localities: Ariz. (Neotropical.)

56. **Pangaeus discrepans** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 386, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 7, pl. 2, fig. 19, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 249, pl. 8, fig. 109, 1882.
Localities: Ind., Tenn., Idaho, Colo., Texas, Calif.

57. **Pangaeus uhleri** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 253, pl. 9, fig. 112, 1882.
Bueno and Brimley, Ent. News, xviii, p. 441, 1907, *Pangaelus*.
‖*rugifrons* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 384, 1877.
Localities: N. C., S. C., Ga., Texas.

58. **Pangaeus bilineatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 315, 1825; Compl. Writ., ii, p. 242, [*Cydnus*
Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i,
Dallas, List of Hemip., i, p. 119, 1851, *Aethus*. [p. 323, *Cydnus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876; iii, p. 383, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 371, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 6, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 254, pl. 9, fig. 13, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 28, 1885.
Barber, Brookl. Inst., Sci. Bul., i, p. 256, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
Van Duzee, Can Ent., xliv, p. 318, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 242, 1912.
femoralis (Herrich-Schaeffer), Wanz. Ins., v, p. 98, fig. 548, 1839, *Cydnus*.
[*robertsoni* Uhler MS] Uhler, Proc. Bost. Soc. Nat. Hist, xix, p. 372, 1878.
Localities: Quebec, Mass., Conn., N. Y., N. J., Pa., Md., N. C., Ala., Okl., Texas. (Mexico.)

59. **Pangaeus spangbergi** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 259, pl. 9, fig. 116, 1882.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
Localities: Texas, Ariz.

60. **Pangaeus piceatus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862.
Stål, Enum. Hemip., v, p. 19, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 275, 1876; iii, p. 388, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 5, pl. 2, fig. 18, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, ii, p. 262, pl. 9, fig. 120, 1882.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.
†*insularis* (Dallas), List of Hemip., i, p. 120, 1851, *Aethus*.

tenuis (Walker), Cat. Heter., i, p. 151, 1867, *Aethus*.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 390, 1877.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 221, 1899.
parilis (Walker), Cat. Heter., i, p. 153, 1867, *Aethus*
Localities: Texas, N. Mex., Ariz., Calif.

Genus **Geotomus** Muls. & Rey.
Logotype *punctulatus* Costa.

Mulsant and Rey, Punaise de Fr., Pent., p. 34, 1866.
Signoret, Ann. Soc. Ent. Fr. Ser. 6, iii, p. 34, 1883.
Distant, Biol. Centr. Am., Heter., i, p. 307, 1889.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 71, 1893.
Distant, Fauna Br. Ind., Rhyn., i, p. 98, 1902.
Zimmer, Univ. Neb. Studies, xi, pp. 23, 24, 1912. [type *elongatus* Uhl.)
Melanaethus Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 280, 1876. (Haplo-
Alonips Signoret, Ann. Mus. Civ. Genoa, xvi, p. 653, 1881.

61. **Geotomus robustus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 390, 1877, *Melanaethus*.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 59, pl. 4, fig. 168, 1883.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 154, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 242, 1912.
Localities: Mass., N. J., Pa., Md., Ga., Fla., Neb.

62. **Geotomus pennsylvanicus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 207, pl. 4, fig. 169, 1883 (n.n. for [*picinus* Uhl.)
‖*picinus* (Uhler), Bul. U. S. Geol. Geog. Surv., iii, p. 391, 1877, *Melanaethus*.
Localities: Pa., Ga.

63. **Geotomus parvulus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 208, pl. 4, fig. 170, 1883 (n.n. for
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906. [*elongatus* Uhl.)
‖*elongatus* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 280, 1876, *Melanaethus*.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 392, 1877, *Melanaethus*.
Localities: Ariz., Calif.

64. **Geotomus uhleri** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 211, pl. 5, fig. 174, 1883.
Locality: "N. Am."

65. **Geotomus punctatissimus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 216, pl. 5, fig. 180, 1883.
Locality: Sitka.

66. **Geotomus subglaber** (Walk.)

Walker, Cat. Heter., i, p. 150, 1867, *Aethus*.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 394, 1877, *Melanaethus*.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 223, 1899.
Locality: "N. Am."

Genus **Amnestus** Dall.
Haplotype *spinifrons* Say

Dallas, List of Hemip., i, pp. 110, 126, 1851.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 307, 1868.
Stål, Enum. Hemip., v, p. 21, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 369, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 367, 1883.
Distant, Biol. Centr. Am., Heter., i, p. 307, 1889.
Zimmer, Univ. Neb. Studies, xi, pp. 241, 242, 1912.
Magoa Stål, Rio Jan. Hemip., i, p. 13, 1860. (Logotype *cribratus* Stål.)

67. **Amnestus spinifrons** (Say)
Say, Jl. Acad. Nat. Sci. Phila., iv, p. 316, 1825; Compl. Writ., ii, p. 242, [*Cydnus.*
Dallas, List of Hemip., i, p. 126, pl. 3, fig. 2, 1851.
Stål, Enum. Hemip., v, p. 21, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 370, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 367, pl. 10, fig. 192, 1883.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 169, 1894.
Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
Localities: Mass., N. Y., N. J., Pa., Ga., Md., Mich., Ind., Ill., Neb., Kan., Texas.

68. **Amnestus pusillus** Uhl.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 278, 1876; iii, p. 371, 1878.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 372, pl. 10, fig. 197, 1883.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 226, 1894.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 25, 1904.
Smith, Cat. Ins. N. J., Edn. 3, p. 133, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
†*subferrugineus* Gillette & Baker, Hemip. Colo., p. 11, 1895.
Localities: N. H., N. Y., N. J., Pa., Fla., Miss., Tenn., Ind., Iowa, Neb., Kan., Colo.

69. **Amnestus pallidus** Zimm.
Zimmer, Can. Ent., xlii, p. 166, 1910 (misspelled *Annectus*).
Locality: Neb.

TRIBE *SEHIRINI* (Stål)
Stål, Hemip. Afr., i, p. 18, 1864, Subfamily *Schirida.*
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 10, 1868, Subfamily *Schirida.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 396, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 521, 1883, Groupe *Schirides.*
Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.

Genus **Lobolophus** Bergr.
Haplotype *anthracinus* (Uhl.)

Bergroth, Rev. d'Ent., x, p. 235, 1891 (n.n. for *Lobonotus* Uhl.).
‖*Lobonotus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 395, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 529, 1883.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 77, 1893.
Banks, Cat. Neare. Hemip., p. 100, 1910.

70. **Lobolophus anthracinus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 395, 1877, *Lobonotus.*
Distant, Biol. Centr. Am., Heter., i, p. 9, pl. 4, fig. 7, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iii, p. 529, pl. 16, fig. 208, 1883.
Localities: Texas. (Mexico.)

Genus **Sehirus** Am. and Serv.

Logotype *morio* (Linn.)

Amyot and Serville, Hémip., p. 96, 1843.
Dallas, List of Hemip., i, p. 127, 1851.
Fieber, Europ. Hemip., p. 366, 1861.
Mulsant and Rey, Punaise de Fr., Pent., p. 47, 1866.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 396, 1877.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 51, 1884.
Oshanin, Kat. Palae. Hemip., p. 3, 1912. (Names *morio* Linn. type.)
Tritomegas Amyot and Serville, Hémip., p. 98, 1843. (Logotype *bicolor*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 50, 1884. [Linn.)
Legnotus Schiodte in Kroyer's Nat. Tidskr., ii, p. 464, 1849.
Canthophorus Mulsant and Rey, Punaise de Fr., Pent., p. 54, 1866. (Logo-
Stål, Enum. Hemip., v, p. 22, 1876. [type *dubius* Scop.)
Distant, Biol. Centr. Am., Heter., i, p. 9, 1880.
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 55, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 27, 1885.
Adomerus Mulsant and Rey, Punaise de Fr., Pent., p. 66, 1866. (Haplo-
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 46, 1884. (type *biguttatus* Linn.)
Lalervis Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 48, 1884. (Haplotype
[*expansa* Sign.)

71. **Sehirus cinctus** (P. B.)

Palisot–Beauvois, Ins. Rec. Afr. Am., p. 114, pl. Hémip. 8, fig. 7, 1805,
Stål, Hemip. Afr., i, p. 29, 1864. [*Pentatoma.*
Stål, Enum. Hemip., v, p. 22, 1876, *Canthophorus.* [*phorus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iii, p. 397, 1877, *Cantho-*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878, *Canthophorus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv., p. 503, 1878, *Canthophorus.*
Distant, Biol. Centr. Am., Heter., i, p. 9, 1880, *Canthophorus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 6, iv, p. 60, pl. 3, fig. 227, 1884, *Cantho-*
Provancher, Pet. Faune Ent. Can., iii, p. 27, 1885, *Canthophorus.* [*phorus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Canthophorus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.
Zimmer, Univ. Neb. Studies, xi, p. 243, 1912.
ligatus (Say), Heter. N. Harm., p. 10, 1831; Fitch reprint, p. 767, *Cydnus.*
Say, Compl. Writ., i, p. 322, *Cydnus.*
albonotatus Dallas, List of Hemip., i, p. 127, 1851.
Uhler, in Say's Compl. Writ., i, p. 323, 1859.
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., D. C., N. C.,
Miss., Ohio, Neb., Manitoba.

Family **PENTATOMIDAE** (Leach)

Leach, Brewster's Edinb. Encyc., ix, p. 121, 1815, *Pentatomides.*
Stephens, Cat. Br. Ins., ii, p. 337, 1829, *Pentatomidae.*
Leach, Brewster's Edinb. Encyc., Am. Edn., viii, p. 710, 1832, *Pentatomida.*
Spinola, Essai sur les Hémip., p. 260, 1837 (1840), *Pentatomites.*
Blanchard, Hist. des Ins., Hémip., p. 141, 1840, *Pentatomites.*
Westwood, Intr. Mod. Classif. Ins., Synop., p. 123, 1840, Subfam. *Pentatomides.*
Spinola, Tavola Sinot., p. 26, 1850, *Pentatomitae.*
Stål, Hemip. Afr., i, p. 32, 1866, *Pentatomida.* (Includes *Scutelleridae.*)
Stål, Of. Vet. Akad. Forh., xxix, p. 33, 1872, *Pentatomina.*
Stål, Enum. Hemip., v, p. 28, 1876, *Pentatomidae.* (Includes *Scutelleridae.*)
Distant, Fauna Br. Ind., Rhyn., i, p. 109, 1902 (as subfamily).
Parshley, Psyche, xxii, p. 170, 1915. (Systematic.)

Subfamily **GRAPHOSOMATINAE** (Jakl.)

Jakowleff, Horae Soc. Ent. Ross, xviii, p. 204, 1884, Subfam. *Graphosomini.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 7, 1886, Tribe *Graphosomini.*
Lethierry and Severin, Cat. Génl. Hémip., i, p. 49, 1893, *Graphosomidae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 70, 1902.
Schouteden, Rhyng. Aethiop., i, p. 95, 1903.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 21, 1904, *Graphosomidae.*
Schouteden, Genera Ins., Fasc. 30, p. 2, 1905.
Oshanin, Verz. Palae. Hemip., i, p. 49, 1906, *Graphosomina.*
Banks, Cat. Neare. Hemip., p. 92, 1910, *Graphosominae.*
Oshanin, Kat. Palae. Hemip., p. 6, 1912, *Graphosominae.*
Zimmer, Univ. Neb. Studies, xi, p. 220, 1912, *Graphosominae.*

TRIBE *PODOPINI* (Dall.)

Dallas, List of Hemip., i, p. 51, 1851, *Podopidae.*
Dohrn, Cat. Hemip., p. 5, 1859, *Podopidae.*
Stål, Of. Vet. Akad. Forh., xxix, p. 34, 1872, Div. *Podoparia.*
Jakowleff, Horae Soc. Ent. Ross., xviii, p. 204, 1884, *Podoparia.*
Schouteden, Genera Ins., Fasc. 30, pp. 3, 28, 1905, Tribe *Podoparia.*
Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.

Genus **Oncozygia** Stål
Haplotype *clavicornis* Stål

Stål, Enum. Hemip., ii, p. 15, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 21, 1904.
Schouteden, Genera Ins., Fasc. 30, p. 29, 1905.

72. **Oncozygia clavicornis** Stål

Stål, Enum. Hemip., ii, p. 16, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 23, 1904.
Schouteden, Genera Ins., Fasc. 30, p. 30, pl. 3, fig. 12, 1905.
Localities: Va., Texas.

Genus **Podops** Lap.
Orthotype *inunctus* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 72, 1832.
Burmeister, Handb. d. Ent., ii, p. 387, 1835 (Sec. B. only).

Spinola, Essai sur les Hémip., p. 372, 1837 (1840).
Germar, Zeit. f. Ent., i, p. 63, 1839.
Herrich-Schaeffer, Wanz. Ins., v, p. 44, 1839.
Blanchard, Hist. des Ins., Hémip., p. 161, 1840 (2d div. only).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 124, 1840.
Amyot and Serville, Hémip., p. 56, 1843.
Spinola, Tavola Sinot., p. 30, 1850.
Dallas, List of Hemip., i, p. 52, 1851.
Gorski, Anal. Ent., i, p. 48, 1852.
Flor, Rhyn. Livl., i, p. 77, 1860.
Fieber, Europ. Hemip., pp. 82, 349, 1861.
Stål, Hemip. Afr., i, pp. 77, 89, 1864.
Walker, Cat. Heter., i, p. 70, 1867.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 34, 1872.
Stål, Enum. Hemip., ii, p. 15, 1872.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 55, 1893.
Distant, Fauna Br. Ind., Rhyn., i, p. 72, 1902.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904.
Schouteden, Genera Ins., Fasc. 30, pp. 29, 31, 1905.
Oshanin, Verz. Palae. Hemip., i, p. 68, 1906.
Begroth, Mém. Soc. Ent. Belg., xv, p. 146, 1908.
Oshanin, Kat. Palae. Hemip., p. 8, 1912.

Subgenus **Amaurochrous** Stål
Logotype *dubius* (P. B.)

Stål, Enum. Hemip., ii, p. 15, 1872.
Schouteden, Genera Ins., Fasc. 30, p. 32, 1905 (names *dubius* type).
Kirkaldy, Cat. Hemip., i, p. 237, 1909 (names *cinctipes* type and on p. 373 [states that *dubius* = *cinctipes*).
Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.
†*Scotinophara* Stål, Of. Vet. Akad. Forh., xxiv, p. 523, 1867.

73. **Podops dubius** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 33, pl. Hémip. 5, fig. 6, 1805, [*Scutellera.*
Germar, Zeit. f. Ent., i, p. 64, 1839.
Herrich-Schaeffer, Wanz. Ins., v, p. 44, fig. 495, 1839.
Amyot and Serville, Hemip., p. 57, 1843, *Podops.*
Dallas, List of Hemip., i, p. 52, 1851, *Podops.*
Stål, Enum. Hemip., ii, p. 15, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 77, 1904, *Podops.* (Doubtful.)
Schouteden, Genera Ins., Fasc. 30, p. 33, 1905.
?Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.
Localities: N. Y.(?), N. J., Va. (West Indies.)

74. **Podops cinctipes** (Say)

Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 502, 1867, *Scotinophara.*
Stål, Enum. Hemip., ii, p. 15, 1872.
Uhler, Check List, p. 5, 1886, *Podops.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Podops.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904, *Podops.*

Schouteden, Genera Ins., Fasc. 30, p. 33, 1905.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 226, 1908.
Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.
†*dubius* Germar, Zeit. f. Ent., i, p. 64, 1839, *Podops*.
Herrich-Schaeffer, Wanz. Ins., v, p. 44, fig. 495, 1839, *Podops*.
Dallas, List of Hemip., i, p. 52, 1851, *Podops*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 274, 1876, *Podops*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 368, 1878, *Podops*.
Gillette and Baker, Hemip. Colo., p. 13, 1895, *Podops*.
Localities: Quebec, Ont., N. Y., N. J., D. C., Neb.

75. **Podops parvulus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 22, 1904, *Podops*.
Schouteden, Genera Ins., Fasc. 30, p. 33, pl. 3, fig. 13, 1905.
Smith, Cat. Ins. N. J., Edn. 3, p. 132, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 238, 1912.
Localities: Quebec, Mass., N. Y., N. J., Neb., Kan., Colo.

Genus **Weda** Schout.
Haplotype *horvathi* Schout.

Schouteden, Ann. Soc. Ent. Belg., xlix, p. 145, 1905.
Schouteden, Genera Ins., Fasc. 30, p. 42, 1905.

76. **Weda horvathi** Schout.

Schouteden, Ann. Soc. Ent. Belg., xlix, p. 145, 1905.
Locality: Colo.

Subfamily **PENTATOMINAE** Stål

Stål, Hemip. Afr., i, pp. 32, 76, 1864.
Stål, Enum. Hemip., ii, p. 12, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 31, 1872, Subfam. *Pentatomina* [(part).
Distant, Biol. Centr. Am., Heter., i, p. 49, 1880.
Puton, Cat. Hémip. Palae., Edn. 3, p. 9, 1886, Tribe *Pentatomini*.
Distant, Fauna Br. Ind., Rhyn., i, pp. 2, 109, 1902.
Oshanin, Verz. Palae. Hemip., i, p. 72, 1906, Subfam. *Pentatomina*.
Oshanin, Kat. Palae. Hemip., p. 9, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 220, 1912.
Macropeltidae Fieber, Europ. Hemip., pp. 26, 77, 327, 1861 (as family).
Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862.

TRIBE *DISCOCEPHALINI* (Fieb.)

Fieber, Europ. Hemip., pp. 26, 77, 326, 1861, Fam. *Discocephalidae*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 499, 1867, *Discocephalida*.
Stål, Hemip. Fabr., i, p. 17, 1868, *Discocephalida*.
Stål, Enum. Hemip., ii, p. 4, 1872, *Discocephalina*.
Distant, Biol. Centr. Am., Heter., i, p. 44, 1880, Subfam. *Discocephalinae*.
Kirkaldy, Cat. Hemip., i, pp. 34, 214, 1909.

Genus **Platycarenus** Fieb.
Haplotype *umbraculata* Fieb.

Fieber, Europ. Hemip., pp. 77, 326, 1861.
Stål, Hemip. Fabr., i, p. 18, 1868.

Stål, Enum. Hemip., ii, p. 5, 1872. (As subgen. of *Discocephala.*)
Kirkaldy, Cat. Hemip., i., p. 215, 1909.
Discocephalessa Kirkaldy, Cat. Hemip., i, p. 215, 1909. (Orthotype [*notulata* Stål.)

77. **Platycarenus clypeatus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 96, 1862, *Discocephala.*
Stål, Hemip. Fabr., i, p. 18, 1868, *Discocephala.*
Stål, Enum. Hemip., ii, p. 6, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 45, pl. 6, fig. 1, 1880, *Discocephala.*
Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906, *Discocephala.*
Snow, Trans. Kan. Acad. Sci., xx., pt. 2, p. 158, 1907, *Discocephala.*
Kirkaldy, Cat. Hemip., i, p. 215, 1909.
inobtrusa (Walker), Cat. Heter., i, p. 183, 1867, *Discocephala.*
Localities: Texas, Ariz. (Mexico.)

78. **Platycarenus marginellus** (Stål)

Stål, Enum. Hemip., ii, p. 6, 1872, *Discocephala.*
Distant, Biol. Centr. Am., Heter., i, p. 45, pl. 5, fig. 2, 1880, *Discocephala*
Kirkaldy, Cat. Hemip., i, p. 216, 1909.
Localities: Ariz. (Neotropical.)

TRIBE *SCIOCORINI* (A. & S.)

Amyot and Serville, Hémip., p. 118, 1843, Groupe *Sciocorides* part.
Stål, Of. Vet. Akad. Forh., xxix, p. 35, 1872, Div. *Sciocoraria.*
Stål, Enum. Hemip., v, p. 49, 1876 (without name).
Atkinson, Jl. Asiatic Soc. Beng., lvii, p. 11, 1888.
Distant, Fauna Br. Ind., Rhyn., i, p. 125, 1902, Div. *Sciocoraria.*
Kirkaldy, Cat. Hemip., i, pp. 34, 208, 1909.

Genus **Sciocoris** Fall.
Haplotype *umbrinus* (Wolff) = *cursitans* (Fabr.)

Fallén, Hemip. Suec. Cimic., p. 20, 1829.
Hahn, Wanz. Ins., i, p. 194, 1831.
Burmeister, Handb. d. Ent., ii, p. 372, 1835.
Herrich-Schaefer, Nomen. Ent., i, p. 37, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 397, 1835.
Spinola, Essai sur les Hémip., p. 312, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 151, 1840.
Westwood, Intr. Mod. Classif. Ins., Synop., p. 124, 1840.
Amyot and Serville, Hémip., p. 120, 1843.
Spinola, Tavola Sinot., p. 35, 1850.
Fieber, Rhyngotog., p. 12, 1851.
Dallas, List of Hemip., i, p. 131, 1851.
Gorski, Anal. Ent., i, p. 64, 1852.
Flor, Rhyng. Livl., i, p. 109, 1860.
Fieber, Europ. Hemip., pp. 82, 355, 1861.
Stål, Hemip. Afr., i, pp. 79, 120, 1864.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 35, 1872.
Stål, Enum. Hemip., v, p. 50, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.

79. **Sciocoris microphthalmus** Flor.

Flor, Rhyng. Livl., i, p. 114, 1860.
Reuter, Ent. Tidskr., i, p. 125, 1880.
Puton, Synop. Hemip., ii, p. 39, 1881.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.
‖*umbrinus* Fieber, Rhyngotog., p. 16, 1851.
Fieber, Europ. Hemip., p. 358, 1861.
curtipennis Mulsant and Rey, Punaise de Fr., Pent., p. 105, 1866.
Localities: Ont., N. H.

TRIBE *MECIDIINI* (Dist.)

Distant, Fauna Br. Ind., Rhyn., i, p. 140. 1902, Div. *Mecidaria.*
Platycoraria, Bergroth, Proc. Zool. Soc. Lond. for 1905, p. 147 (as division).
Oshanin, Kat. Palae. Hemip., p. 9, 1912 (Tribe).
Diemeniini Kirkaldy, Cat. Hemip., i, pp. 34, 202, 1909.

Genus **Mecidea** Dall.
Logotype *indica* Dall.

Dallas, List of Hemip., i, p. 139, 1851.
Stål, Hemip. Afr., i, p. 132, 1864.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 58, 1872.
Stål, Enum. Hemip. ii, p. 17, 1872; v, p. 34, 1876.
Distant, Fauna Br. Ind., Rhyn., i, p. 140, 1902. [description.)
Reuter, Of. Finska Vet. Soc. Forh., lv, Afd. A, No. 14, p. 10, 1913 (full
Ceratadax Signoret, Ann. Soc. Ent. Fr., Ser. 2, ix, p. 335, 1851 (Haplo- [type *quadrivittatus* Sign.)

80. **Mecidea longula** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 233, 1854; xiii, p. 57, 1856.
Stål, Enum. Hemip., ii, p. 17, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 177, 1906.
Localities: Ia., Colo., N. Mex., Texas, Ariz.

TRIBE *HALYINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 35, 1872, Division *Halyaria.*
Stål, Enum. Hemip., v, p. 34, 1876, Division *Halyaria.*
Distant, Fauna Br. Ind., Rhyn., i, p. 109, 1902, Division *Halyaria.*
Oshanin, Verz. Palae. Hemip., i, p. 72, 1906, Division *Halyaria.*
Kirkaldy, Cat. Hemip., i, p. 34, 1909.
Oshanin, Kat. Palae. Hemip., pp. 9, 182, 1912, Tribe *Halyaria.*
Zimmer, Univ. Neb. Studies, xi, p. 220, 1912.

Genus **Brochymena** Am. & Serv.

Haplotype †*serrata* Am. & Serv. = *4-pustulata* (Fabr.)
Amyot and Serville, Hémip., p. 106, 1843.
Spinola, Tavola Sinot., p. 31, 1850.
Dallas, List of Hemip., i, p. 188, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
Stål. Enum. Hemip., ii, p. 16, 1872.

Distant, Biol. Centr. Am., Heter., i, p. 51, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 34, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 26, 1904. (Key.)

81. **Brochymena arborea** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 311, 1825; Compl. Writ., ii, p. 239,
Dallas, List of Hemip., i, p. 188, 1851. [*Pentatoma.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 26, 1853.
Stål, Enum. Hemip., ii, p. 17, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 372, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 59, 1880.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 27, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.
†*erosa* (Herrich-Schaeffer), Wanz. Ins., v, p. 70, fig. 515, 1839; vii, p. 56,
†*annulata* Walker, Cat. Heter., i, p. 230, 1867. [1844, *Halys.*
Localities: Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ga., Fla., Ohio, Kan., Okl., N. Mex., Texas. (Mexico)

82. **Brochymena haedula** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 99, 1862.
Stål, Enum. Hemip., ii, p. 17, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 52, pl. 5, fig. 7, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, pp. 27, 28, 1904.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 34, 1910.
Localities: Texas, Ariz. (Mexico.)

83. **Brochymena poeyi** (Guer.)

Guerin, *in* La Sagra, Hist. de Cuba, Ins., p. 365, pl. 13, fig. 1, 1857, *Pentatoma.*
Stål, Berl. Ent. Zeit., x, p. 156, 1860.
Stål, Enum. Hemip., ii, p. 17, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 28, 1904.
Localities: Fla. (West Indies.)

84. **Brochymena myops** Stål

Stål, Enum. Hemip., ii, p. 16, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 373, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 51, 1880.
Bueno and Brimley, Ent. News, xviii, p. 441, 1907.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
†*quadripustulata* Herrich-Schaeffer, Wanz. Ins., vii, p. 57, fig. 729, 1844.
4-notata Provancher, Nat. Can., iv, p. 74, 1872.
Uhler, Check List, p. 5, 1886.
Localities: N. C., Ala., La., Texas, N. Mex.

85. **Brochymena 4-pustulata** (Fabr.)

Fabricius, Syst. Ent., p. 704, 1775, *Cimex.*
Goeze, Ent. Beytr., i, p. 238, 1778, *Cimex.*

Fabricius, Spec. Ins., ii, p. 347, 1781, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., Edn., 13, i, pt. 4, 2140, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 100, 1794, *Cimex*.
Fabricius, Syst. Rhyng., p. 182, 1803, *Halys*.
Dallas, List of Hemip., i, p. 188, 1851.
Stål, Enum. Hemip., ii, p. 16, 1872.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 28, 1904.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 50, 1912.

†*serrata* (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 187, pl. Hémip. 11, fig. 8, 1805, *Halys*.
Amyot and Serville, Hémip., p. 107, 1843. [p. 59, 1844, *Halys*.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.

pupillata (Herrich-Schaeffer), Wanz. Ins., iv, p. 104, fig. 453, 1839, *Halys*.
Herrich-Schaeffer, Wanz. Ins., vii, p. 58, 1844, *Halys*.

†*annulata* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 373, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 35, 1885.
Localities: Quebec, Ont., N. Y., N. J., Pa., D. C., N. C., Ohio, Neb., Kan., Colo., Utah, Ariz., Calif.

86. **Brochymena affinis** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 29, 1904.
Localities: Idaho, Wash., Calif.

87. **Brochymena tenebrosa** Walk.

Walker, Cat. Heter., i, p. 231, 1867.
Distant, Biol. Centr. Am., Heter., i, pl. 6, fig. 5, 1880.
Kirkaldy, Cat. Hemip., i, p. 192, 1909.

†*obscura* (Herrich-Schaeffer), Wanz. Ins., v, p. 68, fig. 513, 1839; vii, p. 59, 1844, *Halys*.
Stål, Enum. Hemip., ii, p. 16, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 52, 1880.
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 29, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 257, 1906.
Localities: Texas, Colo., Utah, Ariz., Nev., Calif., Oregon. (Mexico.)

88. **Brochymena cariosa** Stål

Stål, Enum. Hemip., ii, p. 17, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 30, 1904.
Localities: Fla., Miss., Tenn., La., Ark., Texas.

89. **Brochymena carolinensis** (Westw.)

Westwood, Hope Cat., i, p. 22, 1837, *Halys*.
Dallas, List of Hemip., i, p. 189, 1851.
Stål, Enum. Hemip., ii, p. 17, 1872.
Distant, Proc. Zool. Soc. Lond. for 1900, p. 823.
Kirkaldy, Cat. Hemip., i, p. 191, 1909.

†*annulatus* (Fabricius), Syst. Ent., p. 704, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 238, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 347, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex.*
Gmelin, *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2139, 1888, *Cimex.*
Fabricius, Ent. Syst., iv, p. 100, 1894, *Cimex.*
Fabricius, Syst. Rhyng., p. 182, 1803, *Halys.*
Herrich-Schaeffer, Wanz. Ins., vii, p. 57, fig. 728, 1844, *Halys.*
Stål, Enum. Hemip., ii, p. 16, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 30, 1904.
Bueno and Brimley, Ent. News, xviii, p. 442, 1907.
†*serrata* (Wolff), Icon. Cimic., v, p. 184, fig. 178, 1811, *Halys.*
harrisii Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 95, 1871; xix, p. 373, 1878.
Localities: N. Y., N. J., D. C., N. C., Ga., Fla.

90. **Brochymena punctata** Van D.

Van Duzee, Can. Ent., xli, p. 369, 1909.
Banks, Cat. Neare. Hemip., p. 92, 1910.
†*harrisii* Van Duzee, Trans. Am. Ent. Soc., xxx, p. 31, 1904.
Bueno and Brimley, Ent. News, xviii, p. 442, 1907.
Localities: Va., Ga.

91. **Brochymena marginella** Stål

Stål, Enum. Hemip., ii, p. 16, 1872. (As var. of *annulata.*)
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 31, 1904.
Localities: Fla., Texas.

92. **Brochymena(?) laticornis** (Say)

Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, 315,
Localities: "U. S." [*Pentatoma.*

TRIBE *PENTATOMINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, p. 37, 1872, Division *Pentatomaria.*
Kirkaldy, Cat. Hemip., i, pp. 34, 35, 1909.
Oshanin, Kat. Palae., Hemip., p. 10, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 221, 1912.

Genus **Peribalus** Muls. & Rey.
Logotype *vernalis* Wolff.

Mulsant and Rey, Punaise de Fr., Pent., pp. 237, 262, 1866.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 37, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 65, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904. (Key.)
Zimmer, Univ. Neb. Studies, xi, pp. 221, 223, 1912.
†*Holcostethus* Kirkaldy, Cat. Hemip., i, p. 47, 1909.

93. **Peribalus abbreviatus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 397, 1872, *Holcostethus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 403, 1877, *Holcostethus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Holcostethus.*
Gillette and Baker, Hemip. Colo., p. 16, 1895, *Holcostethus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 33, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.

Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.
Localities: Neb., Kan., Colo., Utah, Mont., Ariz., Calif., Br. Am. (Mexico.)

94. **Peribalus limbolarius** Stål

Stål, Enum. Hemip., ii, p. 34, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 403, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 65, pl. 6, fig. 19, 1880.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Gillette and Baker, Hemip. Colo., p. 16, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 32, 1904.
Zimmer, Univ. Neb. Studies, xi, p. 223, 1912.
modestus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.
Localities: Ont., N. Y., N. J., N. C., Ga., Ill., Neb., Kan., Colo., Texas, N. Mex., Manitoba, Mont., Utah, Ariz., Calif., Vanc. Isd. (Mexico.)

95. **Peribalus tristis** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 33, 1904.
Localities: Calif., Vanc. Isd.

96. **Peribalus piceus** (Dall.)

Dallas, List of Hemip., i, p. 236, 1851, *Pentatoma(?)*.
Gillette and Baker, Hemip. Colo., p. 16, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.
Localities: Ont., Ia., Mont., Colo.

97. **Peribalus dubius** (Dall.)

Dallas, List of Hemip., p. 237, 1851, *Pentatoma*.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.
Localities: "N. Am."

Genus **Trichopepla** Stål

Haplotype *pilipes* (Dall.) = *semivittata* (Say)

Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.
Distant, Biol. Centr. Am., Heter., i, p. 64, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.
Zimmer, Univ. Neb. Studies, xi, p. 221, 1912.

98. **Trichopepla semivittata** (Say)

Say, Heter. N. Harm., p. 9, 1832; Fitch reprint, p. 766; Compl. Writ., i, p. [322, *Pentatoma*.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871.
Stål, Enum. Hemip., ii, p. 34, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 403, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 374, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 64, pl. 6, fig. 5, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 34, 1904.

Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.

‖*semivittatum* (Herrich-Schaeffer), Wanz. Ins., vii, p. 101, fig. 766, 1844, Walker, Cat. Heter., iii, p. 559, 1868, *Pentatoma.* [*Pentatoma.*

pilipes (Dallas), List of Hemip., i, p. 247, 1851, *Pentatoma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.
Localities: Ont., N. Y., N. J., Pa., Del., D. C., N. C., Fla., Ohio, Ind., Neb., Colo., Texas.

99. **Trichopepla atricornis** Stål

Stål, Enum. Hemip., ii, p. 34, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 403, 1877.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904.
Localities: Ill., Wisc., Colo., Mont., Calif., Br. Am., Alaska.

Genus **Rhytidolomia** Stål
Logotype *senilis* Say

Stål, Enum. Hemip., ii, p. 33, 1872.
Kirkaldy, Entomol., xxxiii, p. 240, 1900. (Names *senilis* type.)
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904 (as subgenus).
Kirkaldy, Cat. Hemip., i, p. 52, 1909.

‖*Lioderma* Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871. (Logotype
Stål, Enum. Hemip., ii, p. 32, 1872. [*saucia* Say.)
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 377, 1878.
Uhler, Check List, p. 6, 1886.

Liodermion Kirkaldy, Entomol., xxxvii. p. 280, 1904 (n.n. for *Lioderma*
Kirkaldy, Cat. Hemip., p. 53, 1909 (as subgenus). [Uhl).
Zimmer, Univ. Neb. Studies, xi, p. 224, 1912.

100. **Rhytidolomia viridicata** (Walk.)

Walker, Cat. Heter., ii, p. 283, 1867, *Hymenarcys.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 436, 1899, *Pentatoma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 36, 1904, *Pentatoma.*
Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion.* [(as new.)

‖*viridicata* (Uhler), Wheeler's Surv., v., p. 830, pl. 42, fig. 11, 1875, *Lioderma,*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 504, 1878, *Lioderma.*
Uhler, Check List, p. 6, 1886, *Lioderma.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Lioderma.*
Localities: Neb., Colo., Mont. (Mexico.)

101. **Rhytidolomia saucia** (Say).

Say, Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 762; Compl. Writ., i, p.
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867, *Pentatoma.* [318, *Pentatoma.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871, *Lioderma.*
Stål, Enum. Hemip., ii, p. 34, 1872, *Lioderma.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Lioderma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 36, 1904, *Pentatoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909, *Pentatoma.*
Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.
Localities: Mass., Conn., N. Y., Va., Fla.

102. **Rhytidolomia senilis** (Say)

Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871, *Lioderma.* [316, *Pentatoma.*

Stål, Enum. Hemip., ii, p. 33, 1872, *Lioderma.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Lioderma.*
Distant, Proc. Zool. Soc. Lond. for 1900, p. 811, *Pentatoma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma.*
Smith, Cat. Ins. N. J., Edn. 3, p. 134, 1910.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 51, 1912.
oblonga (Westwood), Hope Cat., i, p. 9, No. 83, 1837, *Pentatoma.*
ovalis (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma.*
grisea (Dallas), List of Hemip., i, p. 246, 1851, *Pentatoma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867, *Pentatoma.*
Localities: N. Y., N. J., Va.

103. **Rhytidolomia belfragei** Stål

Stål, Enum. Hemip., ii, p. 33, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma.*
Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion.*
Localities: Ill., Iowa, Neb., "Canada."

104. **Rhytidolomia osborni** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 37, 1904, *Pentatoma.*
Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 177, 1906, *Pentatoma.*
Localities: Colo., Texas, Ariz.

105. **Rhytidolomia faceta** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 315, 1824; Compl. Writ., ii, p. 242, *Penta-*
Uhler, Hayden's Surv. Terr., Rept. for 1871; p. 399, 1872, *Pentatoma.* [*toma.*
Van Duzee, Trans. Am. Ent. Soc. xxx, p. 38, 1904, *Pentatoma.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906; *Pentatoma.*
Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion.*
Localities: Dak., Neb., Colo., Utah, Ariz., Calif.

Genus **Chlorochroa** Stål

Logotype *ligata* Say

Stål, Enum. Hemip., ii, p. 33, 1872. (As subgen. of *Lioderma.*)
Distant, Biol. Centr. Am. Heter., i, p. 63, 1880. [*toma.*)
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 38, 1904. (As subgen. of *Penta-*
Oshanin, Verz. Palae. Hemip., i, p. 108, 1906. [*ligata* type.)
Kirkaldy, Cat. Hemip., i, p. 53, 1909. (As subgen. of *Rhytidolomia;* names
†*Pentatoma* Fieber, Europ. Hemip., pp. 80, 336, 1861.
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867 (part).
Puton, Cat. Hémip. Palae., Edn. 3, p. 12, 1886.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 119, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 35, 1904.
Banks, Cat. Neare. Hemip., p. 88, 1912.
†*Lioderma* Provancher, Pet. Faune Ent. Can., iii, p. 41, 1885. [Linn.)
Pitedia Reuter, Rev. Synon., p. 124, No. 55, 1888. (Haplotype *juniperina*

106. **Chlorochroa uhleri** Stål

Stål, Enum. Hemip., ii, p. 33, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 64, pl. 6, fig. 18, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 39, 1904, *Pentatoma.*
Forbes, Rept. Ill. St. Ent., xxiii, p. 116, fig. 101, 1905, *Pentatoma.*
Zimmer, Univ. Neb. Studies, xi, p. 225, 1912, *Liodermion.* [*Cimex.*
?flavomarginatus (Kouchakevitch), Horae Soc. Ent. Ross., iv, p. 99, 1867,
†*ligata* (Fitch), 3d Rept. Trans. N. Y. St. Agr. Soc., xvi, p. 389, 1856, *Penta-*
Provancher, Pet. Faune Ent. Can., iii, p. 41, 1885, *Lioderma.* [*toma.*
†*juniperina* (Provancher), Pet. Faune Ent. Can., iii, p. 36, 1885, *Pentatoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894, *Pentatoma.*
Gillette and Baker, Hemip. Colo., p. 15, 1895, *Pentatoma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 39, 1904, *Pentatoma.*
persimilis Hovarth, Ann. Mus. Natl. Hung., vi, p. 555, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 51, 1912.
Localities: Quebec, Ont., Me., Conn., N. Y., N. J., Neb., Colo., Utah, Mont., Idaho, Calif., Alaska. (Mexico.)

107. **Chlorochroa congrua** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 288, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 40, 1904, *Pentatoma.*
Localities: Colo., Utah, Mont., Idaho.

108. **Chlorochroa ligata** (Say)

Say, Heter. N. Harm., p. 5, 1831; Fitch reprint, p. 760; Compl. Writ., i, p. 315,
Stål, Enum. Hemip., ii, p. 33, 1872. [*Pentatoma.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872, *Pentatoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 288, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
Distant, Biol. Centr. Am., Heter., i, p. 64, 1880.
Townsend, Can. Ent., xxiv, p. 193, 1892, *Lioderma.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
Gillette and Baker, Hemip. Colo., p. 15, 1895, *Lioderma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 41, 1904, *Pentatoma.*
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 23, 1910, *Pentatoma.*
rufocinctus (Herrich-Schaeffer), Wanz. Ins., iv, p. 94, fig. 436, 1839, *Cimex.*
marginatus (Dallas), List of Hemip., i, p. 277, 1851, *Rhaphigaster.*
Walker, Cat. Heter., iii, p. 357; iii, p. 566, 1867, *Raphigaster.*
rubromarginatus (Kouchakevitch), Horae Soc. Ent. Ross., iv, p. 101, pl. 2, [fig. 4, 1867, *Cimex.*
Localities: Colo., Utah, N. Mex., Ariz., Calif., Vanc. Isd. (Mexico.)

109. **Chlorochroa sayi** Stål

Stål, Enum. Hemip., ii, p. 33, 1872.
Uhler, Wheeler's Surv. 100th Merid., v, p. 831, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876; iii, p. 402, 1877.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1324.
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893, *Lioderma.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894, *Lioderma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 41, 1904, *Pentatoma.*

Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 73, 1910, *Pentatoma.*
granulosa (Uhler), Hayden's Surv. Terr., Rept. for 1871, p. 398, 1872, [*Pentatoma.*
Localities: Kan., Colo., Mont., Idaho, Utah, Nev., Ariz., Calif.

Genus **Carpocoris** Kolen.
Logotype *nigricornis* Fabr. = *pudicus* Poda.

Kolenati, Melet. Ent., iv, p. 45, 1846.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 37, 1872.
Distant, Fauna Br. Ind., Rhyn., i, p. 157, 1902.
Kirkaldy, Cat. Hemip., i, p. 56, 1909. (Names *nigricornis* Fabr. type.)
†*Mormidea* Fieb., Europ. Hemip., p. 334, 1861.

Subgenus **Antheminia** Muls. & Rey
Logotype *lynx* Fabr. = *lunulatus* Goez.

Mulsant and Rey, Punaise de Fr., p. 238, 1866.
Kirkaldy, Cat. Hemip. i., pp. 56, 57, 1909. (Names *lynx* type.)

110. **Carpocoris remotus** Horv.

Horvath, Ann. Mus. Natl. Hung., v, p. 296, 1907.
Banks, Cat. Nearc. Hemip., p. 83, 1910.
†*lynx* Stål, Enum. Hemip., ii, p. 33, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 398, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876.
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
Gillette and Baker, Hemip. Colo., p. 16, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
Localities: N. D., Colo., Mont., Utah, Ariz., Calif.

Genus **Mormidea** Am. & Serv.
Logotype *ypsilon* Linn.

Amyot and Serville, Hémip., p. 134, 1843.
Dallas, List of Hemip., i, p. 210, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.
Stål, Enum. Hemip., ii, p. 19, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 53, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 43, 1885.
Kirkaldy, Cat. Hemip., i, p. 59, 1909. (Names *ypsilon* Linn. type.)
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

Subgenus **Melanochila** Stål
Haplotype *lugens* Fabr.

Stål, Enum. Hemip., ii, p. 19, 1872.
Kirkaldy, Cat. Hemip., i, p. 59, 1909. (Names *lugens* Fabr. type.)

111. **Mormidea lugens** (Fabr.)

Fabricius, Syst. Ent., p. 716, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 248, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 360, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 297, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., i, pt. 4, p. 2155, 1788, *Cimex.*

Fabricius, Ent. Syst., iv, p. 125, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 187, 1803, *Cydnus.*
Wolff, Icones Cimic., v, p. 186, fig. 180, 1811, *Cydnus.*
Herrich–Schaeffer, Wanz. Ins., v, p. 66, fig. 510, 1889, *Cimex;* vii, p. 96, 1844,
Dallas, List of Hemip., i, p. 248, 1851, *Pentatoma.* [*Pentatoma.*
Stål, Stet. Ent. Zeit., xxiii, p. 103, 1862.
Walker, Cat. Heter., ii, pp. 253, 288, 1867, *Pentatoma;* iii, p. 43, 1868.
Stål, Enum. Hemip., ii, p. 19, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876; iii, p. 402, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 54, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 43, 1885.
Van Duzee, Can. Ent., xxi, p. 2, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 226, 1912.

albipes (Fabricius), Ent. Syst., Suppl., p. 535, 1798, *Cimex.*
Fabricius, Syst. Rhyng., p. 177, 1803, *Cimex.* [n.n. for *albipes* Fabr.).
gamma (Fabricius), Syst. Rhyng., Emmend. at end of volume, 1803, *Cimex*
Say, Heter., N. Harm., p. 10, 1831; Fitch reprint, p. 767; Compl. Writ., [i, p. 322, *Pentatoma.*
punctipes (Palisot–Beauvois), Ins. Rec. Afr. Am., p. 113, pl. Hémip. 8, [fig. 6, 1805, *Pentatoma.*
‖*punctipes* (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 313, No. 4, 1825, *Penta-*
Say, Compl. Writ., ii, p. 241, 1859. [*toma.*
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., D. C., Va., N. C., S. C., Fla., Wisc., Neb., Kan., Okl., Dak., Wyo., Colo., Texas. (West Indies, Mexico.)

Subgenus **Mormidea** Am. & Serv.

Stål, Enum. Hemip., ii, p. 19, 1872.

112. **Mormidea pictiventris** Stål

Stål, Stet. Ent. Zeit., xviii, p. 103, 1862.
Stål, Enum. Hemip., ii, p. 20, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 55, pl. 5, fig. 11, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907.
Localities: Fla., Texas. (West Indies, Mexico.)

113. **Mormidea sordidula** Stål

Stål, Enum. Hemip., ii, p. 21, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907.
Localities: Texas, N. Mex. (Neotropical.)

114. **Mormidea tetra** Walk.

Walker, Cat. Heter., iii, p. 551, 1868.
Distant, Biol. Centr. Am., Heter., i, p. 56, pl. 6, fig. 6, 1880.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904.
Snow, Trans Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
griseseens Stål, Enum. Hemip., ii, p. 21, 1872.
Localities: Texas, Ariz. (Mexico.)

115. **Mormidea punctifer** (Walk.)

Walker, Cat. Heter., ii, p. 274, 1867, *Eysarcoris.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 437, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.
Locality: Calif.

116. **Mormidea guerini** L. & S.

Lethierry and Severin, Cat. Génl. Hémip., i, p. 123, 1893 (n.n. for *geographica* †*geographica* Guerin, Hist. de Cuba, Ins., p. 369, 1857. [Guer.).
Localities: Fla. (Cuba.)

Genus **Solubea** Bergr.
Logotype *typhaeus* (Fabr.) = *pugnax* (Fabr.)

Bergroth, Rev. d'Ent., x, p. 235, 1891 (n.n. for *Ochalus* Stål).
Kirkaldy, Cat. Hemip., i, p. 61, 1909. (Names *pugnax* Fabr. type.)
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.
‖*Ochalus* Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.
Stål, Enum. Hemip., ii, p. 22, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 56, 1880.

117. **Solubea pugnax** (Fabr.)

Fabricius, Syst. Ent., p. 704, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 238, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 100, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 161, 1803, *Cimex.*
Stål, Enum. Hemip., ii, p. 22, 1872, *Oebalus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876, *Ochalus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 377, 1878, *Oebalus.*
Distant, Biol. Centr. Am., Heter., i, p. 56, 1880, *Oebalus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904, *Oebalus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 24, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 226, 1912.
typhoeus (Fabricius), Syst. Rhyng., p. 162, 1803, *Cimex.*
Wolff, Icon. Cimic., v, p. 180, fig. 174, 1811, *Cimex.*
Dallas, List of Hemip., i, p. 216, 1851, *Mormidea.*
Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 370, 1857, *Pentatoma.*
Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862.
Walker, Cat. Heter., ii, p. 253, 1867, *Mormidea.*
Stål, Hemip. Fabr., i, p. 27, 1868. [fig. 9, 1805, *Pentatoma.*
orthocantha (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 130, pl. Hémip. 9,

augur (Say), Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 758; Compl. [Writ., i, p. 313, *Pentatoma.*

vitripennis (Burmeister), Handb. d. Ent., ii, p. 367, 1835, *Cimex.*

Localities: N. Y., N. J., Pa., Md., D. C., N. C., S. C., Ga., Fla., Miss., Ohio, Ia., Neb., Kan., Colo., Texas, Ariz. (West Indies, Mexico.)

Genus **Euschistus** Dall.

Logotype *tristigmus* (Say)

Dallas, List of Hemip., i, p. 201, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.
Walker, Cat. Heter., ii, p. 243, 1867.
Stål, Enum. Hemip., ii, p. 23, 1872 (names *tristigmus* type).
Distant, Biol. Centr. Am., Heter., i, p. 58, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 43, 1904. (Key.)
Kirkaldy, Cat. Hemip., i, p. 63, 1909. (Names *apicalis* Dall. pseudotype.)
Zimmer, Univ. Neb. Studies, xi, pp. 222, 227, 1912.

Subgenus **Euschistus** Dall.

Stål, Enum. Hemip., ii, p. 26, 1872.

118. **Euschistus servus** (Say)

Say, Heter. N. Harm., p. 4, 1831; Fitch reprint, p. 759; Compl. Writ., i, p.
Stål, Enum. Hemip., ii, p. 26, 1872. [314, *Pentatoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876; iii, p. 402, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
Distant, Proc. Zool. Soc. Lond. for 1900, p. 811.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 45, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 75, 1910.

?harrisii (Westwood), Hope Cat., i, p. 41, 1837, *Pentatoma.*

Distant, Proc. Zool. Soc. Lond. for 1900, p. 818, pl. 52, fig. 2,
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 42, 1904.

spilota (Westwood), Hope Cat., i, p. 42, 1837, *Pentatoma.*

Localities: Mass., N. J., Pa., Md., D. C., Va., N. C., S. C., Ga., Fla., Miss., La., Ill., Dak., Colo., N. Mex., Texas.

119. **Euschistus latimarginatus** Zim.

Zimmer, Can. Ent., lii, p. 167, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 227, 1912.

Localities: Neb., Colo.

120. **Euschistus impictiventris** Stål

Stål, Enum. Hemip., ii, p. 26, 1872.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 45, 1904.

?jugalis Provancher, Pet. Faune Ent. Can., iii, p. 204, 1888.

Van Duzee, Can. Ent., xliv, p. 325, 1912.

Localities: Colo., N. Mex., Texas, Utah, Vanc. Isd.

121. **Euschistus euschistoides** (Voll.)

Vollenhoven, Versl. Med. Kon. Akad. Wetens. Amst., Ser. 2, ii, p. 180, 1868, [*Diceraeus.*
Kirkaldy, Cat. Hemip., i, p. 64, 1909.
fissilis Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871.
Stål, Enum. Hemip., ii, p. 26, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.
Van Duzee, Bul. Buf. Soc. Nat Sci., v, p. 171, 1894.
Gillette and Baker, Hemip. Colo., p. 14, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 44, 1904.
Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 227, 1912.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., N. C., Ohio, Ill., Neb., Colo., Mont., Vanc. Isd.

122. **Euschistus conspersus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 388, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 46, 1904.
Localities: Calif., Wash., Vanc. Isd.

123. **Euschistus inflatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 107, 1903; xxx, p. 45, 1904.
Localities: Colo., N. Mex.

124. **Euschistus politus** Uhl.

Uhler, Can. Ent., xxix, p. 117, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 46, 1904.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.
Localities: N. H., Mass., R. I., N. Y., N. J., Md., D. C., Ohio.

125. **Euschistus tristigmus** (Say)

Say, Heter. N. Harm., p. 4, 1831; Fitch reprint, p. 758; Compl. Writ., i, p. [314, *Pentatoma.*
Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861.
Stål, Enum. Hemip., ii, p. 26, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.
Distant, Biol. Centr. Am. Heter., i, p. 58, pl. 5, figs. 20, 21, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 36, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 52, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.
inconspecta (Westwood), Hope Cat., i, p. 42, 1837.
Dallas, List of Hemip., i, p. 206, 1851.
‖*tristigmus* (Herrich-Schaeffer), Wanz. Ins., vii, pp. 95, 101, fig. 767, 1844,
Dallas, List of Hemip., i, p. 207, 1851. [*Pentatoma* (as new).
Herrich-Schaeffer, Wanz. Ins., Verz., p. 96, 1853.
luridus Dallas, List of Hemip., i, p. 207, pl. 7, fig. 6, 1851.

a. var. **pyrrhocerus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 71, fig. 638, 1842, *Cimex.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Md., D. C., Va., N. C., Ga., Fla., Ia., Neb., Kan., Okl., Mo., La., Colo.

126. **Euschistus variolarius** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 149, pl. Hémip. 10, fig. 6, 1805, [*Pentatoma.*
Stål, Enum. Hemip., ii, p. 26, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 285, 1876; iii, p. 402, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 374, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 53, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.
‖*punctipes* (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 314, No. 5, 1825; Compl. Dallas, List of Hemip., i, p. 207, 1851. [Writ., ii, p. 241, *Pentatoma.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 96, 1853.
sordidus (Herrich-Schaeffer), Wanz. Ins., vi, p. 70, fig. 637, 1842, *Cimex;* [vii, p. 95, 1844, *Pentatoma;* Verz., p. 96, 1853.
†*ictericus* (Herrich-Schaeffer), Wanz. Ins., vi, p. 71, fig. 639, 1842, *Cimex;* [vii, p. 95, 1844, *Pentatoma;* Verz., p. 95, 1853.
Localities: Ont., N. Y., N. J., Pa., D. C., Neb., Kan., Colo., Utah, Idaho.

127. **Euschistus ictericus** (Linn.)

Linnaeus, Cent. Ins., p. 16, 1763, *Cimex.*
Linnaeus, Amoen. Acad., vi, p. 399, 1763, *Cimex.*
Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 719, 1767, *Cimex.*
Fabricius, Syst. Ent., p. 702, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 192, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 345, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 284, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2136, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 95, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 157, 1803, *Cimex.*
Dallas, List of Hemip., i, p. 206, 1851 (excel. synon.).
Walker, Cat. Heter., ii, p. 243, 1867; iii, p. 451, 1868, *Aceratodes.*
Stål, Enum. Hemip., ii, p. 26, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 47, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 228, 1912.
rubrofusca (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 185, pl. Hemip. 11, fig. 3, 1805, *Pentatoma.*
?*cognatus* Dallas, List Hemip., i, p. 204, 1851. [
Localities: Ont., N. Y., N. J., N. C., Fla., Ill., Wisc., Neb., Colo., Texas.

128. **Euschistus bifibulus** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 148, pl. Hémip. 10, fig. 5, 1805, [*Pentatoma.*
Dallas, List of Hemip., i, p. 204, 1851.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 95, 1853.
Stål, Stet. Ent. Zeit., xxiii, p. 100, 1862.
Stål, Enum. Hemip., ii, p. 27, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 59, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 259, 1906.
Snow, Trans. Kan. Acad. Sci., xx, p. 151, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907; ix, p. 155, 1909.
Localities: Fla., Texas. (Neotropical.)

129. **Euschistus crenator** (Fabr.)

Fabricius, Ent. Syst., iv, p. 101, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 162, 1803, *Cimex.*
Stål, Hemip. Fabr., i, p. 26, 1868.
Stål, Enum. Hemip., ii, p. 27, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1323.
Distant, Biol. Centr. Am., Heter., i, p. 59, 1880.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 172.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 437, 1899.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 7, 1907.
♂*obscura* (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 149, pl. Hémip. 10, [fig. 7 (not fig. 9), 1805, *Pentatoma.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 366, 1857, *Pentatoma.*
pustulata (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 185, pl. Hémip. 11, [fig. 2, 1805, *Pentatoma.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 95, 1853. (As synon. of [*ictericus* Linn.)
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 368, 1857, *Pentatoma.*
obscurus Dallas, List of Hemip., i, p. 208, 1851.
Stål, Stet. Ent. Zeit., xxiii, p. 100, 1862.
conterminus Walker, Cat. Heter., ii, p. 248, 1867.
melanoeantha (Walker), Cat. Heter., iii, p. 552, 1868, *Mormidea.*
Localities: Texas, Ariz., Calif. (Neotropical.)

130. **Euschistus spurculus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 100, 1862.
Stål, Enum. Hemip., ii, p. 28, 1872.
Signoret, Bul. Ent. Soc. Fr. for 1877, p. xxxvi (use as food).
Distant, Biol. Centr. Am., Heter., i, p. 59, pl. 6, fig. 10, 1880; p. 330, 1890.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Barber, Jl. N. Y., Ent. Soc., xviii, p. 34, 1910.
Localities: Ariz. (Mexico.)

131. **Euschistus comptus** Walk.

Walker, Cat. Heter., iii, p. 550, 1868.
Stål, Enum. Hemip., ii, p. 28, 1872.
Distant, Biol. Cent. Am., Heter., i, p. 60, pl. 6, fig. 11, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.
Localities: Texas. (Neotropical.)

132. **Euschistus crassus** Dall.

Dallas, List of Hemip., i, p. 205, 1851.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.
Localities: Ga., Fla.

133. **Euschistus biformis** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 100, 1862.
Walker, Cat. Heter., iii, p. 550, 1868.
Stål, Enum. Hemip., ii, p. 28, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 60, pl. 5, fig. 15, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 77, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Localities: Ariz. (Mexico.)

134. **Euschistus zopilotensis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 330, pl. 31, fig. 9, 1890.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 48, 1904.
Localities: Texas. (Mexico.)

Subgenus **Paraschistus** Kirk.
Orthotype *integer* Stål

Kirkaldy, Cat. Hemip., i, p. 63, 1909.

135. **Euschistus integer** Stål

Stål, Enum. Hemip., ii, p. 28, 1872.
Distant, Biol. Cent. Am., Heter., i, p. 60, pl. 7, fig. 5, 1880.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Localities: Ariz. (Mexico.)

Genus **Padaeus** Stål

Logotype *irroratus* (H. S.) = *viduus* (Voll.)

Stål, Stet. Ent. Zeit., xxiii, p. 101, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 528, 1867.
Distant, Biol. Centr. Am., Heter., i, p. 61, 1880.
Kirkaldy, Cat. Hemip., i, p. 68, 1909. (Names *irroratus* = *viduus* type.)

136. **Padaeus viduus** (Voll.)

Vollenhoven, Versl. Med. Kon. Akad. Weten., Amst., Ser. 2, ii, p. 180, 1868,
Kirkaldy, Cat. Hemip., i, p. 69, 1909. [*Mormidea.*
‖*irroratus* (Herrich-Schaeffer), Wanz. Ins., iv, p. 19, fig. 367, 1839, *Cimex.*
Herrich-Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma.*
Dallas, List of Hemip., i, p. 215, 1851, *Mormidea.*
Stål, Stet. Ent. Zeit., xxiii, p. 101, 1862.
Stål, Enum. Hemip., ii, p. 29, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 61, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Localities: Ariz. (not Fla.). (Neotropical.)

Genus **Proxys** Spin.
Haplotype *victor* Fabr.

Spinola, Essai sur les Hémip., p. 325, 1837 (1840).
Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.

Distant, Biol. Centr. Am., Heter., i, p. 62, 1880.
‡*Prooxys* Amyot and Serville, Hémip., p. 139, 1843.
‡*Proxis* Spinola, Tavola Sinot., p. 36, 1850.

137. **Proxys albopunctulatus** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 130, pl. Hémip. 9, fig. 8, 1805, *Pentatoma*.
Stål, Enum. Hemip., ii, p. 29, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 62, 1880.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 438, 1899.
——— Stoll, Punais., figs. 159, 230, 1790 (without name).
†*victor* (Herrich-Schaeffer), Wanz. Ins., iv, p. 21, fig. 369, 1839, *Cimex*.
Herrich-Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma*.
§*albopunctatus* Uhler, Check List, p. 6, 1886.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Localities: "Southern States" (Uhler), doubtful.

138. **Proxys punctulatus** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 188, pl. Hémip. 11, fig. 9, 1805, *Halys*.
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 370, 1857, *Pentatoma*.
Stål, Enum. Hemip., ii, p. 29, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 286, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 63, 1880.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Bueno and Brimley, Ent. News., xviii, p. 442, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
†*victor* (Wolff), Icon. Cimic., v, p. 181, fig. 175, 1811, *Cimex*.
Amyot and Serville, Hémip., p. 140, 1843, *Prooxys*.
tenebrosa (Say), Ins. Louis., p. 10, 1832; Heter. N. Harm., p. 10, 1832; [Fitch reprint, p. 767; Compl. Writ., i, pp. 304, 322, *Pentatoma*.
†*delirator* Amyot and Serville, Hémip., p. 140, pl. 3, fig. 7, 1843, *Prooxys*.
brevispinus Guerin *in* Sagra, Hist. de Cuba, Ins., p. 371, 1857.
geniculata Stål, Stet. Ent. Zeit., xxiii, p. 102, 1862, *Prooxys*.
Localities: Pa., N. C., Ga., Fla., La., Okl., Texas. (Neotropical.)

Genus **Coenus** Dall.

Haplotype *tarsalis* Dall. = *delius* (Say)

Dallas, List of Hemip., i, pp. 194, 230, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867.
Provancher, Pet. Faune Ent. Can., iii, p. 40, 1885.
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

139. **Coenus delius** (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 765; Compl. Writ., i, p. 320, *Pentatoma*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867.
Stål, Enum. Hemip., ii, p. 30, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876; iv, p. 504, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.
Provancher, Pet. Faune Ent. Can., ii, p. 40, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Gillette and Baker, Hemip. Colo., p. 15, 1895.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 53, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
aeruginosa (Amyot and Serville), Hémip., p. 125, 1843, *Hymenareys.*
Walker, Cat. Heter., ii, p. 282, 1867, *Hymenareys.*
tarsalis, Dallas, List of Hemip., i, p. 230, pl. 8, fig. 6, 1851. [ii, p. 183, 1868.
punctatissimus Vollenhoven, Versl. Med. Kon. Akad. Weten., Amst., Ser.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Fla., Ill., Wisc., Neb., Colo., Okl., Texas, Mont., Br. Col.

Genus **Hymenarcys** Am. & Serv.

Logotype *perpunctata* Am. & Serv. = *nervosa* Say.

Amyot and Serville, Hémip., p. 124, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 526, 1867.
Stål, Enum. Hemip., ii, p. 30, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 63, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 39, 1885.
Kirkaldy, Cat. Hemip., i, p. 72, 1909. (Names *nervosa* Say type.)
Zimmer, Univ. Neb. Studies, xi, pp. 222, 229, 1912.
‡*Hymenareis* Spinola, Tavola Sinot., p. 36, 1850.

140. **Hymenarcys aequalis** (Say)

Say, Heter. N. Harm., p. 7, 1831; Fitch reprint, p. 764; Compl. Writ., i, p. [319, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 30, 1872.
Uhler, Hayden's Surv., Rept. for 1871, p. 396, 1872.
Uhler, Bul. U. S.. Geol. Geog. Surv., i, p. 287, 1876.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 259, 1906.
Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
dentatus (Herrich-Schaeffer), Wanz. Ins., v, p. 64, fig. 507, 1839, *Cimex.*
Herrich-Schaeffer, Wanz. Ins., vii, p. 95, 1842, *Pentatoma.*
Walker, Cat. Heter., ii, p. 288, 1867, *Pentatoma.*
boxura (Dallas), List of Hemip., i, p. 244, 1851, *Pentatoma.*
Localities: Mass., N. Y., N. J., Md., D. C., N. C., Ga., Fla., Miss., Ohio, Ind., Ill., Mo., Dak., Neb., Kan., Colo., Okl., Texas, Mont., Sask.

141. **Hymenarcys reticulata** Stål

Stål, Enum. Hemip., ii, p. 30, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 63, pl. 6, fig. 17, 1880.
Localities: Ariz. (Mexico.)

142. **Hymenarcys crassa** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 387, 1897.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
Locality: Ariz.

143. **Hymenarcys nervosa** (Say)

Say, Heter. N. Harm., p. 9, 1832; Fitch reprint, p. 766; Compl. Writ., i, p. [321, *Pentatoma.*
Walker, Cat. Heter., ii, p. 283, 1867.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 40, pl. 1, fig. 11, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
pennsylvaniae (Westwood), Hope Cat., i, p. 35, 1837, *Pentatoma*.
perpunctata Amyot and Serville, Hémip., p. 124, 1843.
Stål, Of. Vet. Akad. Forh., xix, p. 502, 1862.
Localities: Quebec, Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., S. C., Ga., Fla., Ind., Ill., Mo., Dak., Neb., Okl., Texas.

Genus **Aelia** Fabr.
Orthotype *acuminata* Linn.

Fabricius, Syst. Rhyng., p. 188, 1803.
Fallén, Hemip. Suec. Cimic., p. 33, 1829.
Hahn, Wanz. Ins., i, p. 120, 1831.
Leach, Brewster's Edinb. Encyc., Am. Edn., viii, p. 710, 1832.
Laporte, Essai Classif. Syst. Hémip., p. 66, 1832.
Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 55, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 401, 1835. (Names *acuminatus* type.)
Spinola, Essai sur les Hémip., p. 313, 1837 (1840).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
Blanchard, Hist. des Ins., Hémip., p. 154, 1840.
Amyot and Serville, Hémip., p. 133, 1843.
Spinola, Tavola Sinot., p. 36, 1850.
Dallas, List of Hemip., i, p. 222, 1851.
Gorski, Anal. Ent., i, p. 71, 1852 (subgen. of *Pentatoma*).
Flor, Rhyng. Livl., i, p. 118, 1860 (Subgen. I.).
Fieber, Europ. Hemip., pp. 82, 350, 1861.
Douglas and Scott, Br. Hemip., p. 68, 1865.
Mulsant and Rey, Punaise de Fr., Pent., p. 128, 1866.
Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872.
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.
†*Cimex* Burmeister, Handb. d. Ent., ii, p. 366, 1835 (in part).

144. **Aelia americana** Dall.

Dallas, List of Hemip., i, p. 223, 1851.
Walker, Cat. Heter., ii, p. 271, 1867.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.
Gillette and Baker, Hemip. Colo., p. 14, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 49, 1904.
Zimmer, Univ. Neb. Studies, xi, p. 229, 1912.
Localities: Dak., Neb., Colo., Mont., Manitoba.

Genus **Neottiglossa** Kby.
Haplotype *trilineata* Kirby

Kirby, Richardson's Fauna Bor. Am., iv, p. 276, 1837.
Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872.
Stål, Enum. Hemip., ii, p. 18, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 38, 1885.

Zimmer, Univ. Neb. Studies, xi, pp. 222, 230, 1912.
†*Eysarcoris* Spinola, Essai sur les Hémip., p. 310, 1837 (1840).
Aelioides Dohrn, Stet. Ent. Zeit., xxi, p. 101, 1860. (Orthotype *inflexa*
Douglas and Scott, Br. Hemip., p. 70, 1865. [Wolff.)
Mulsant and Rey, Punaise de Fr., Pent., p. 142, 1866. [Fieb.)
Platysolen Fieber, Europ. Hemip., pp. 82, 353, 1861. (Logotype *griseus*
Subgenus **Neottiglossa** Kby.
Stål, Enum. Hemip., ii, p. 18, 1872.

145. **Neottiglossa undata** (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 764; Compl. Writ., i, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 96, 1871. [319, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 18, 1872.
Uhler, Hayden's Surv. Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 401, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 39, 1885.
Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903, *Mormidea.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 548, 1905.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
Zimmer, Univ. Neb. Studies, xi, 230, 1912.
†*americana* (Provancher), Pet. Faune Ent. Can., iii, p. 38, 1885, *Aelia.*
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Ohio, Ill., Wisc., Minn., Neb., Colo., Calif., Vanc. Isd.

146. **Neottiglossa trilineata** (Kby.)

Kirby, Richardson's Fauna Bor. Am., iv, p. 276, pl. 6, fig. 6, 1837, *Pentatoma.*
Kirby *in* Bethune's reprint, p. 135, *Pentatoma.*
Dallas, List of Hemip., i, p. 224, 1851, *Aelia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 401, 1877.
Uhler, Can. Ent., x, p. 138, 1878.
Localities: Dak., Neb., Manitoba, Br. Col.

Subgenus **Texas** Kirk.
Logotype *sulcifrons* Stål

Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Melanostoma* Stål).
Kirkaldy, Cat. Hemip., i, pp. 79, 80, 1909. (Names *sulcifrons* type.) [Stål.)
‖*Melanostoma* Stål, Enum. Hemip., ii, p. 18, 1872. (Logotype *sulcifrons*

147. **Neottiglossa sulcifrons** Stål

Stål, Enum. Hemip., ii, p. 18, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 402, 1877, *Melan-*
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893. [*ostoma.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.
Bueno and Brimley, Ent. News, xviii, p. 442, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 135, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 230, 1912.
Localities: N. J., Md., D. C., N. C., Ga., Neb., Kan., Utah, Texas.

148. **Neottiglossa cavifrons** Stål

Stål, Enum. Hemip., ii, p. 18, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904.
Localities: Texas, Utah, Calif.

Genus **Cosmopepla** Stål

Logotype *carnifex* Fabr. = *bimaculata* Thom.

Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
Stål, Enum. Hemip., ii, p. 18, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 52, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 44, 1885.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 45, 1893. (Synopsis of species.)
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 50, 1904. (Key.)
Kirkaldy, Cat. Hemip., i, p. 80, 1909. (Names *carnifex* type.)
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

149. **Cosmopepla bimaculata** (Thom.)

Thomas, Trans. Ill. St. Ag. Soc., v, p. 455, 1865, *Pentatoma.*
‖*carnifex* (Fabricius), Ent. Syst. Suppl., p. 535, 1798, *Cimex.*
Coquebert, Illust. Icon. Ins., ii, p. 81, pl. 19, fig. 3, 1801, *Cimex.*
Fabricius, Syst. Rhyng., p. 117, 1803. *Cimex.*
Hahn, Wanz. Ins., ii, p. 117, 1834, *Eysarcoris.*
Kirby, Richardson's Fauna Bor. Am., iv, p. 275, 1837, *Pentatoma.*
Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 153, 1853, *Pentatoma.*
Walker, Cat. Heter., ii, p. 274, 1867, *Eysarcoris.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
Stål, Hemip. Fabr., i, p. 28, 1868.
Stål, Enum. Hemip., ii, p. 18, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876; iii, p. 402, 1877;
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 376, 1878. [iv, p. 504, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 44, 1885.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 46, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.
lintneriana Kirkaldy, Cat. Hemip., i, p. 80, 1909 (n.n. for *carnifex* Fabr.)
Localities: Quèbec, Ont., Nov. Sco., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Miss., Ohio, Ill., Mo., Neb., Kan., Okl., Texas, Colo., Utah, Mont., Ariz., Wash.

150. **Cosmopepla uhleri** Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 48, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Localities: Neb., Ariz., Nevada, Calif.

151. **Cosmopepla conspicillaris** (Dall.)

Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 153, 1853, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 19, 1872.
Uhler, Wheeler's Surv., 100th Merid., v, p. 830, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 53, pl. 5, fig. 8, 1880.
Montandon, Proc. U. S. Natl. Mus., xvi, pp. 46, 49, 1893.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 229, 1894.
Gillette and Baker, Hemip. Colo., p. 14, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
Localities: Colo., Utah, Mont., Calif., Oregon, Wash., Vanc. Isd.

152. **Cosmopepla binotata** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 327, pl. 31, fig. 7, 1889.
Montandon, Proc. U. S. Natl. Mus., xvi, pp. 46, 49, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 51, 1904.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Localities: Wis., Ariz. (Mexico.)

153. **Cosmopepla decorata** (Hahn)

Hahn, Wanz. Ins., ii, p. 117, fig. 198, 1834, *Eysarcoris.*
Dallas, List of Hemip., i, p. 225, 1851, *Eysarcoris.*
Herrich-Schaeffer, Wanz. Ins., vii, 96, 1853, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 19, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 284, 1876.
Distant, Biol. Centr. Am., Heter, i, p. 53, 1880.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 46, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
Barber, Brookl. Inst., Sci. Bul., i, p. 259, 1906.
Localities: Ariz., Texas. (Mexico.)

Genus **Eysarcoris** Hahn
Logotype *perlatus* Fabr. = *aeneus* Scop.

Hahn, Wanz. Ins., ii, p. 66, 1834.
Spinola, Tavola Sinot., p. 35, 1850. (Spelled *Cysarcoris* by error.)
Dallas, List of Hemip., i, p. 224, 1851.
Stål, Hemip. Afr., i, p. 135, 1864.
Douglas and Scott, Br. Hemip., p. 74, 1865.
Stål, Of. Vet. Akad. Forh., xxix, p. 37, 1872.
Kirkaldy, Cat. Hemip., i, p. 82, 1909. (Names *aeneus* type.)
‡*Eusarcoris* Fieber, Europ. Hemip., pp. 79, 331, 1861.
Mulsant and Rey, Punaise de Fr., Pent., p. 37, 1866.
Oshanin, Verz. Palae. Hemip., p. 95, 1906.
‡*Eysarcocoris* Stål, Hemip. Afr., i, p. 135, 1864.
‡*Eusarcocoris* Marshall, Ent. Mo. Mag., iv, pp. 260, 281, 1868.
Distant, Fauna Br. Ind., Rhyn., i, p. 165, 1902. [Stål.)
Analocus Stål, Of. Vet. Akad. Forh., xxix, p. 36, 1872. (Logotype *misellus*

154. **Eysarcoris intergressus** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
†*melanocephalus* (Uhler), Bul. U. S. Geol. Geog. Surv., i, pl. 19, fig. 7, 1876.
Gillette and Baker, Hemip. Colo., p. 14, 1895, *Neottiglossa.*
Localities: Kan., Colo., Utah, Mont., Idaho, Calif., Vanc. Isd.

Genus **Menecles** Stål
Orthotype *incertus* Say

Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.
Zimmer, Univ. Neb. Studies, xi, p. 223, 1912.

155. **Menecles incertus** (Say)

Say, Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 762; Compl. Writ., i, [p. 317, *Pentatoma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 527, 1867.
Stål, Enum. Hemip., ii, p. 31, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 287, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 375, 1878.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.

Localities: Ont., Mass., N. Y., N. J., Pa., Ohio, Ill., Mo., Neb., Kan., Ark., Ariz., Calif.

Genus **Prionosoma** Uhl.
Haplotype *podopioides* Uhl.

Uhler, Proc. Am. Ent. Soc., ii, p. 363, 1863.
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

156. **Prionosoma podopioides** Uhl.

Uhler, Proc. Am. Ent. Soc., ii, p. 364, 1863.
Stål, Enum. Hemip., ii, p. 33, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 394, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876; iii, p. 401, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Gillette and Baker, Hemip. Colo., p. 13, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 231, 1912.
villosum Prov., Pet. Faune Ent. Can., iii, p. 204, 1889.

Localities: Neb., Colo., Utah, N. Mex., Ariz., Nev., Calif., Vanc. Isd.

Genus **Thyanta** Stål
Logotype *perditor* Fabr.

Stål, Rio Jan. Hemip., ii, p. 58, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 529, 1867.
Stål, Enum. Hemip., ii, p. 34, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 42, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 52, 1904. (Key.)
Kirkaldy, Cat. Hemip., i, p. 94, 1909. (Names *perditor* type.)
Zimmer, Univ. Neb. Studies, xi, pp. 222, 232, 1912.

157. **Thyanta perditor** (Fabr.)

Fabricius, Ent. Syst., iv, p. 102, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 163, 1803, *Cimex.*
Dallas, List of Hemip., i, p. 206, 1851, *Euschistus.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 367, 1857, *Pentatoma.*
Stål, Stet. Ent. Zeit., xxiii, p. 104, 1862.
Walker, Cat. Heter., ii, p. 247, 1867, *Euschistus.*
Stål, Hemip. Fabr., i, p. 29, 1868.

?Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 404, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Distant, Biol. Centr. Am., Heter., i, p. 66, 1880.
Berg., Hemip. Argent. Add., p. 182, 1884.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 53, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 9, 1907.
Zimmer, Univ. Neb. Studies, xi, p. 232, 1912. [fig. 8, 1805, *Pentatoma.*

fascifera (Palisot–Beauvois), Ins. Rec. Afr. Am., p. 160, pl. Hémip. 10, *collaris* (Westwood), Hope Cat., i, p. 40, 1837, *Pentatoma.*

dimidiatus (Herrich–Schaeffer), Wanz. Ins., vi, p. 66 (under name *trans-*[*versalis*), fig. 629, 1842, *Cimex.*

Herrich–Schaeffer, Wanz. Ins., vii, p. 94, 1844, *Pentatoma.* (Herrich–Schaeffer has here transferred the name and reference for this species to the one preceding it.)

?rubiginosus (Dallas), List of Hemip., i, p. 206, 1851, *Euschistus.*

fasciatus (Walker), Cat. Heter., ii, p. 245, 1867, *Euschistus.*

adjunctor (Walker), Cat. Heter., ii, p. 249, 1867, *Euschistus.*

Localities: Fla., Ariz. (Neotropical.) (More northerly localities probably refer to the next.)

158. **Thyanta custator** (Fabr.)

Fabricius Syst. Rhyng., p. 164, 1803, *Cimex.*
Dallas, List of Hemip., i, p. 251, 1851, *Pentatoma.*
Stål, Rio Jan. Hemip., ii, p. 58, 1862.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.
Stål, Enum. Hemip., ii, p. 34, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 289, 1876; iii, p. 404, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 42, 1885.
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 230, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 171, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 53, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 260, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 155, 1909.
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 84, 1910.
Barber, Jl. N. Y. Ent. Soc., xix, p. 109, 1911.
Zimmer, Univ. Neb. Studies, xi, p. 232, 1912.

Localities: Quebec, Mass., Conn., N. Y., N. J., Pa., N. C., Ga., Fla., Miss., Tenn., Ia., Dak., Neb., Mo., Colo., Utah, Texas, Ariz., Calif., Oregon, Vanc. Isd.

159. **Thyanta pallido-virens** (Stål)

Stål, Freg. Eug. Resa, Ins., p. 227, 1859, *Pentatoma.*
Stål, Rio Jan. Hemip., ii, p. 58, 1862.
Stål, Enum. Hemip., ii, p. 35, 1872.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.

†*custator* Kirkaldy, Cat. Hemip., i, p. 94, 1909 (in part).

Locality: Calif.

160. **Thyanta calceata** (Say)

Say, Heter. N. Harm., p. 8, 1831; Fitch reprint, p. 765; Compl. Writ., i, p. 320, *Pentatoma.*
Barber, Jl. N. Y. Ent. Soc., xix, p. 108, 1911. [*toma.*
Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912.
†*custator* (Herrich-Schaeffer), Wanz. Ins., vii, p. 106, fig. 771, 1844, *Penta-*
Localities: Conn., N. Y., N. J., Va., N. C.

161. **Thyanta casta** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 104, 1862.
Distant, Biol. Centr. Am., Heter., i, p. 66, pl. 5, fig. 19, 1880.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 174.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1904.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 125, 1912.
Localities: Fla., N. Mex., Ariz., Calif. (Neotropical.)

162. **Thyanta antiguensis** (Westw.)

Westwood, Hope Cat., i, p. 36, 1837, *Pentatoma.*
Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 260, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 9, 1907.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 125, 1912.
taeniola (Dallas), List of Hemip., i, p. 250, 1851, *Pentatoma.*
Stål, Rio Jan. Hemip., ii, p. 58, 1862.
Stål, Enum. Hemip., ii, p. 35, 1872.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173.
Localities: Fla., Ariz., Texas, Calif. (Neotropical.)

163. **Thyanta rugulosa** (Say)

Say, Het. N. Harm., p. 7, 1831; Fitch reprint, p. 764; Compl. Writ., i, p. 319,
Stål, Enum. Hemip., ii, p. 35, 1872. [*Pentatoma.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876; iii, p. 403, 1877.
Uhler, Wheeler's Rept. Chief of Eng. for 1877, p. 1324.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 231, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 54, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.
Localities: Neb., Colo., Utah, Mont., Ariz., Calif.

164. **Thyanta punctiventris** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 55, 1904.
Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.
Localities: N. D., Neb., Colo., Utah, Calif.

165. **Thyanta brevis** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 56, 1904.
Barber, Brookl., Inst. Sci. Bul., i, p. 260, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 177, 1906.
Localities: Colo., Utah, Idaho, Texas, Ariz., Calif.

Genus **Chlorocoris** Spin.
Haplotype *tau* Spin.

Spinola, Essai sur les Hémip., p. 288, 1837 (1840).
Dallas, List of Hemip., pp. 151, 166, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
Stål, Enum. Hemip., ii, p. 35, 1872.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910. [*planata* = *tau* Spin.)
Thelima Amyot and Serville, Hemip., p. 107, 1843. (Haplotype *com-*

Subgenus **Chlorocoris** Spin.

Stål, Enum. Hemip., ii, p. 35, 1872.

166. **Chlorocoris atrispinus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 99, 1862.
Stål, Enum. Hemip., ii, p. 35, 1872.
Distant, Biol. Centr. Am., Heter. i, p. 67, pl. 5, fig. 21, 1880.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Localities: N. Mex. (Neotropical.)

Subgenus **Monochrocerus** Stål
Logotype *rufispinus* Dall.

Stål, Enum. Hemip., ii, p. 35, 1872.
Kirkaldy, Cat. Hemip., i, p. 95, 1909. (Names *rufispinus* type.)

167. **Chlorocoris subrugosus** Stål

Stål, Enum. Hemip., ii, p. 36, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 68, pl. 6, fig. 21, 1880.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Localities: Ariz. (Mexico.)

168. **Chlorocoris flaviviridis** Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 164, 1914.
†*rufopictus* Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Locality: Ariz.

169. **Chlorocoris hebetatus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 335, pl. 31, fig. 16, 1890.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 35, 1910.
Localities: Ariz. (Mexico.)

Genus **Loxa** Am. & Serv.
Logotype *flavicollis* Drury

Amyot and Serville, Hémip., p. 137, 1843.
Dallas, List of Hemip., i, pp. 193, 198, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 525, 1867.
Stål, Enum. Hemip., ii, p. 36, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 70, 1880.
Kirkaldy, Cat. Hemip., i, p. 96, 1909. (Names *flavicollis* type.)

170. **Loxa flavicollis** (Drury)

Drury, Illust. Exot. Ent., ii, p. 67, pl. 36, fig. 4, 1773, *Cimex.*
Stoll, Punais, pp. 81, 82, figs. 196, 198, 200, 1792. (No name.)
Amyot and Serville, Hémip., p. 137, 1843.
Dallas, List of Hemip., i, p. 198, 1851.

Walker, Cat. Heter., iii, p. 549, 1868.
Stål, Enum. Hemip., ii, p. 36, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 70, 1880.
Distant, Ann. Mag. Nat. Hist., Ser. 7, iv, p. 441, 1899 (excl. syn).
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.

albicollis (Fabricius), Spec. Ins., ii, p. 347, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2138, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 98, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 160, 1803, *Cimex.* [*Pentatoma.*
Herrich-Schaeffer, Wanz. Ins., vi, p. 68, fig. 634, 1842; vii, p. 94, 1844,
viridis (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 111, pl. Hémip. 8, fig. 1, [1805, *Pentatoma.*
virescens Amyot and Serville, Hémip., p. 137, pl. 3, fig. 3, 1843.
(Not *deducta* Walker, Cat. Heter., ii, p. 242, 1867.)
Localities: Texas, N. Mex. (Neotropical.)

171. **Loxa florida** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 156, 1909.
†*flavicollis* Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904 (in part).
Locality: Fla.

Genus **Murgantia** Stål
Logotype *tessellata* Am. & Serv.

Stål, Stet. Ent. Zeit., xxiii, p. 105, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 529, 1867.
Stål, Enum. Hemip., ii, p. 37, 1872.
Kirkaldy, Cat. Hemip., i, p. 106, 1909. (Names *tessellata* type.)
Zimmer, Univ. Neb. Studies, xi, p. 222, 1912.

172. **Murgantia histrionica** (Hahn)

Hahn, Wanz. Ins., ii, p. 116, fig. 196, 1834, *Strachia.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 93, 1853, *Eurydema.*
Stål, Stet. Ent. Zeit., xxii, p. 141, 1861, *Strachia.*
Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.
Stål, Enum. Hemip., ii, p. 37, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 396, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876; iii, p. 404, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Distant, Biol. Centr. Am., Heter., i, p. 71, pl. 7, fig. 21, 1880.
Uhler, Proc. Calif, Acad. Sci., Ser. 2, iv, p. 231, 1894.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, 121, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906.
Morrill, U. S. Dept. Agr., Bur. Ent., Circ. 103, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 54, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.

nigricans Cockerell, Bul. S. Calif. Acad. Sci., ii, p. 85, 1903 (a dark form).
Localities: N. Y., N. J., Pa., Del., D. C., Md., N. C., Ga., Fla., La., Ohio, Ill., Mo., Neb., Kans., Colo., N. Mex., Texas, Ariz., Nev., Calif.

173. **Murgantia varicolor** (Westw.)

Westwood, Hope Cat., i, p. 37, 1837, *Pentatoma.*
Distant, Proc. Zool. Soc. Lond. for 1900, p. 812.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
munda (Dallas), List of Hemip., i, p. 264, 1851, *Strachia.*
Stål, Of. Vet. Akad. Forh., xix, p. 497, 1862, *Strachia.*
Walker, Cat. Heter., ii, p. 316, 1867.
Stål, Enum. Hemip., ii, p. 37, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 71, pl. 7, fig. 20, 1880.
‖*munda* Stål, Stet. Ent. Zeit., xxii, p. 141, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.
Uhler, Check List, p. 7, 1886.
Localities: "West States" (Uhler). (Neotropical.)

174. **Murgantia violascens** (Westw.)

Westwood, Hope Cat., i, p. 34, 1837, *Pentatoma.*
Dallas, List of Hemip., i, p. 263, 1851, *Strachia.*
Stål, Of. Vet. Akad. Forh., xix, p. 467, 1862.
Stål, Enum. Hemip., ii, p. 37, 1872.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
concinna (Dallas), List of Hemip., i, p. 265, 1851, *Strachia.*
Localities: Fla. (West Indies.)

175. **Murgantia(?) angularis** (Walk.)

Walker, Cat. Heter., ii, p. 315, 1867, *Strachia.*
Locality: N. Am.

Genus **Vulsirea** Spin.
Logotype *nigrorubra* Spin. = *violacea* Fabr.

Spinola, Essai sur les Hémip., p. 350, 1837 (1840).
Amyot and Serville, Hémip., p. 142, 1843.
Herrich-Schaeffer, Wanz., Ins., viii, p. 12, 1848.
Dallas, List of Hemip., i, pp. 196, 271, 1851.
Stål, Stet. Ent. Zeit., xxii, p. 139, 1861.
Stål, Of. Vet. Akad. Forh., xxiv, p. 531, 1867.
Stål, Enum. Hemip., ii, p. 39, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 75, 1880.
Kirkaldy, Cat. Hemip., i, p. 112, 1909. (Names *violacea* type.)
†*Rhaphigaster* Spinola, Tavola Sinot., p. 34, 1850 (part).

176. **Vulsirea violacea** (Fabr.)

Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex.*
Stoll, Punais., p. 62, fig. 133, 1792 (without name).
Herrich-Schaeffer, Wanz. Ins., iv, p. 89, fig. 425, 1839, *Cimex.*
Herrich-Schaeffer, Wanz. Ins., vii, p. 95, 1844, *Pentatoma.*
Stål, Hemip. Fabr., i, p. 31, 1868.
Stål, Enum. Hemip., ii, p. 39, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 76, 1880.
Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 391, 1900.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904.
abdominalis (Westwood), Hope Cat., i, p. 32, 1837, *Rhaphigaster.*
superba Walker, Cat. Heter., ii, p. 354, 1867.

a. var. **lativentris** Walker
Walker, Cat. Heter., ii, p. 353, 1867.
Distant, Biol. Centr. Am., Heter., i, p. 76, 1880. [1868.
tau Vollenhoven, Versl. Med. Kon. Akad. Weten., Amst., Ser. 2, ii, p. 186,

b. var. **ancora** Spin.
Spinola, Essai sur les Hémip., p. 351, 1837 (1840).
Amyot and Serville, Hémip., p. 143, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 12, 1845.
Dallas, List of Hemip., i, p. 272, 1851.
Stål, Enum. Hemip., ii, p. 39, 1872.

c. var. **nigro-rubra** Spin.
Spinola, Essai sur les Hémip., p. 351, 1837 (1840).
Amyot and Serville, Hémip., p. 143, 1843.
Dallas, List of Hemip., i, p. 271, 1851.
Stål, Of. Vet. Akad. Forh., xiii, p. 60, 1856.
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 372, 1857, *Pentatoma.*
ponderosa (Stal), Of. Vet. Akad. Forh., xi, p. 233, 1854, *Strachia.*
Localities: Fla. (Neotropical.)

Genus **Runibia** Stål
Logotype *perspicua* (Fabr.)

Stål, Stet. Ent. Zeit., xxii, pp. 140, 141, 1861.
Stål, Of. Vet. Akad. Forh., xxv, p. 529, 1867.
Stål, Enum. Hemip., ii, p. 38, 1872.
Kirkaldy, Cat. Hemip., i, p. 110, 1909. (Names *perspicua* Fabr. type.)

177. **Runibia(?) proxima** (Dall.)
Dallas, List of Hemip., i, p. 255, 1851, *Pentatoma.*
Stål, Stet. Ent. Zeit., xxii, p. 141, 1861.
Walker, Cat. Heter., ii, p. 317, 1867, *Strachia.*
Stål, Enum. Hemip., ii, p. 39, 1872.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
Localities: Texas. (West Indies.)

Genus **Nezara** Am. & Serv.
Logotype *smaragdula* (Fabr.) = *viridula* (Linn.)

Amyot and Serville, Hémip., p. 143, 1843.
Dallas, List of Hemip., i, p. 274, 1851. (Subgen. of *Rhaphigaster.*)
Fieber, Europ. Hemip., pp. 78, 329, 1861.
Stål, Hemip. Afr., i, pp. 192, 193, 1864.
Mulsant and Rey, Punais. de Fr., Pent., p. 288, 1866.
Stål, Of. Vet. Akad. Forh., xxiv, pp. 514, 530, 1867.
Stål, Enum. Hemip., ii, p. 40, 1872.
Stål, Of. Vet. Akad. Forh., xxix, p. 38, 1872.
Stål, Enum. Hemip., v, p. 63, 1876.
Distant, Biol. Centr. Am., Heter, i, p. 77, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 57, 1904. (Key.)
Kirkaldy, Cat. Hemip., i, p. 115, 1909. (Names *viridula* type.)
Zimmer, Univ. Neb. Studies, xi, p. 233, 1912.
Bergroth, Ann. Soc. Ent. Belg., lviii, p. 25, 1914.

178. **Nezara viridula** (Linn.)

Linnaeus, Syst. Nat., Edn. 10, i, p. 444, 1758, *Cimex.*
Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 721, 1767, *Cimex.*
Fabricius, Ent. Syst., p. 710, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 196, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 354, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 291, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2150, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 109, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 166, 1803, *Cimex.*
Stål, Hemip. Afr., i, p. 193, 1864.
Stål, Hemip. Fabr., i, p. 31, 1868.
Gerstecker, Decker, Reisen in Ost. Afr., iii, p. 401, 1873.
Stål, Enum. Hemip., ii, p. 41, 1872; v, p. 91, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 78, 1880.
Reuter, Rev. Synon., p. 126, No. 57, 1888.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 176.
Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 392, 1900.
Distant, Proc. Zool. Soc. Lond. for 1900, p. 813.
Distant, Fauna Br. Ind., i, p. 220, 1902.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907; ix, p. 157, 1909.
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 82, 1910.

variabilis (Villers), Ent., p. 505, 1789, *Cimex.*

†*smaragdula* (Dufour), Recher. Hemip., p. 157, 1833, *Pentatoma.*
Amyot and Serville, Hémip., p. 141, 1843.
Gorski, Anal. Ent., i, p. 103, 1852, *Pentatoma.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 373, 1857, *Pentatoma.*
Fieber, Europ. Hemip., p. 330, 1861.

berylina (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma.*
hemichloris (Germar), Silb. Rev., v, p. 166, 1837, *Cimex.*
approximata Reiche and Fairmaire, Voy. Abys., p. 443, 1847.
prasinus (Dallas), List of Hemip., i, p. 274, 1851, *Rhaphigaster.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 182, 1853, *Rhaphigaster.*
Mulsant and Rey, Punais. de Fr., Pent., p. 295, 1866.
orbus (Stål), Of. Vet. Akad. Forh., x, p. 221, 1853, *Rhaphigaster.*

a. var. **smaragdula** (Fabr.)

Fabricius, Syst. Ent., p. 711, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 246, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 354, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 292, 1787, *Cimex*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2153, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 109, 1794, *Cimex.*
Wolff, Icon. Cimic., ii, p. 56, fig. 53, 1801, *Cimex.*
Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex.*
Herrich-Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster.*
Costa, Cimic. Neap. Cent., i, p. 56, 1838, *Pentatoma.*

spirans (Fabricius), Ent. Syst., Suppl., p. 533, 1798, *Cimex.*
Fabricius, Syst. Rhyng., p. 167, 1803, *Cimex.*

viridissimus (Wolff), Icon. Cimic., ii, p. 55, fig. 52, 1801, *Cimex.*

unicolor (Westwood), Hope. Cat., i, p. 38, 1837, *Pentatoma.*
subsericea (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma.*
Dallas, List of Hemop., i, p. 275, 1851, *Rhaphigaster.*
leii (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma.*
3-punctigera (Westwood), Hope. Cat., i, p. 38, 1837, *Pentatoma.*
¶*proxima* (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma.*
chinensis (Westwood), Hope Cat., i, p. 38, 1837, *Pentatoma.*
¶*propinqua* (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma.*
plicaticollis (Lucas), Exped. Alg., p. 87, pl. 3, fig. 9, 1849, *Pentatoma.*

b. var. **torquata** (Fabr).
Fabricius, Syst. Ent., p. 710, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 245, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 353, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 291, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2150, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 108, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 160, 1803, *Cimex.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 190, 1804, *Pentatoma.*
Herrich–Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster.*
Herrich–Schaeffer, Wanz. Ins., iv, p. 100, fig. 447, 1839, *Rhaphigaster.*
Stål, Of. Vet. Akad. Forh., xii, p. 345, 1855, *Rhaphigaster.*
transversus (Thunberg), Diss. Ent., Nov. Ins., ii, p. 40, 1783, *Cimex.*
flavicollis (Palisot–Beauvois), Ins. Rec. Afr. Am., p. 185, 1805, *Pentatoma.*
flavicornis (Palisot–Beauvois), Ins. Rec. Afr. Am., pl. Hémip., 11, fig. 4, [1805, *Pentatoma.*
oblonga (Westwood), Hope Cat., i, p. 37, 1837, *Pentatoma.*
vicaria (Walker), Cat. Heter., ii, p. 303, 1867, *Pentatoma.*
Localities: Va., Fla., La. (Warmer parts of the world.)

Genus **Acrosternum** Fieb.
Haplotype *heegeri* Fieb.

Fieber, Europ. Hemip., pp. 79, 331, 1861.
Stål, Of. Vet. Akad. Forh., xxix, p. 38, 1872.
Stål, Enum. Hemip., ii, p. 41, 1872; v, pp. 63, 90, 1876.
Kirkaldy, Cat. Hemip., i, p. 118, 1906.
Bergroth, Ann. Soc. Ent. Belg., lviii, p. 25, 1914.

179. **Acrosternum pennsylvanicum** (De Geer)

De Geer, Mémoirs, iii, p. 330, pl. 34, fig. 5, 1773, *Cimex.*
Gmelin, *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2148, 1788, *Cimex.*
Palisot–Beauvois, Ins. Rec. Afr. Am., p. 186, pl. Hémip. 11, fig. 5, 1805,
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871, *Rhaphigaster.* [*Pentatoma.*
Stål, Enum. Hemip., ii, p. 42, 1872.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878, *Rhaphigaster.*
Uhler, Check List, p. 8, 1886.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 136, 1910.

Olsen, Jl. N. Y. Ent. Soc., xx, p. 55, 1912. [Writ., i, p. 317, *Pentatoma.*
abrupta (Say), Heter. N. Harm., p. 6, 1831; Fitch reprint, p. 761; Compl.
parnisus (Dallas), List of Hemip., i, p. 279, 1851, *Rhaphigaster.*
Kirkaldy, Cat. Hemip., i, p. 121, 1909.
Localities: Quebec, Mass., N. Y., N. J., Pa., Ga., Fla., Ohio, Ill., Ia.

180. **Acrosternum marginatum** (P. B.)

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 147, pl. Hémip. 10, fig. 1, 1805,
Amyot and Serville, Hémip., p. 143, 1843. [*Pentatoma.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 374, 1857, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 42, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 79, pl. 7, fig. 23, 1880.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 175.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907.
†*spirans* (Dallas), List of Hemip., i, p. 280, 1851, *Rhaphigaster.*
jurgiosa Stål, Stet. Ent. Zeit., xxiii, p. 106, 1862.
Localities: Fla., Texas, Ariz., Calif. (Neotropical.)

181. **Acrosternum hilaris** (Say)

Say, Ins. of La., p. 9, 1832; Heter. N. Harm., p. 5, 1831; Fitch reprint, p. [761; Compl. Writ., i, pp. 304, 316, *Pentatoma.*
Walker, Cat. Heter, iii, p. 566, 1868, *Rhaphigaster.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 380, 1878, *Nezara.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 368, 1893, *Nezara.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, 172, 1894, *Nezara.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 58, 1904, *Nezara.*
Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906, *Nezara.*
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 78, 1910, *Nezara.*
Zimmer, Univ. Neb. Studies, xi, p. 233, 1912, *Nezara.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
sarpinus (Dallas), List of Hemip., i, p. 276, 1851, *Rhaphigaster.*
Walker, Cat. Heter., ii, p. 357, 1867, *Rhaphigaster.*
†*pennsylvanicus* (Fitch), 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 389, [1856, *Rhaphigaster.*
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., La., Ia., Neb., Kan., Colo., Utah, Mont., Texas, Ariz., Calif.

Genus **Banasa** Stål
Logotype *induta* Stål

Stål, Rio Jan. Hemip., i, p. 24, 1860.
Stål, Enum. Hemip., ii, p. 43, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 79, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 45, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 59, 1904. (Key.)
Kirkaldy, Cat. Hemip., i, p. 115, 1909. (Names *induta* Stål type.)
Atomosira Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 97, 1871. (Haplo-
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878. [type *sordida* Uhl.)

182. **Banasa dimidiata** (Say)

Say, Heter. N. Harm., p. 7, 1831; Fitch reprint, p. 763; Compl. Writ., i, p. [318, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 43, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 234, 1912.
†*calva* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1874.
†*euchlora* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.
§*dimiata* Kirkaldy, Cat. Hemip., i, p. 122, 1909.
Localities: Quebec, Ont., Mass., N. Y., Pa., Md., D. C., N. C., Ga., Fla., N. D., Neb., Colo., Utah, Mont., Okl., Texas, Calif., Vanc. Isd.

183. **Banasa subrufescens** (Walk.)

Walker, Cat. Heter., ii, p. 290, 1867, *Pentatoma.*
Kirkaldy, Cat. Hemip., i, p. 122, 1909.
‖*dimidiatus* (Stål) Rio Jan. Hemip., i, p. 22, 1860, *Rhaphigaster.*
basalis (Walker), Cat. Heter., ii, p. 291, 1867, *Pentatoma.*
derivatus (Walker), Cat. Heter., ii, p. 361, 1867, *Rhaphigaster.*
varians Stål, Enum. Hemip., ii, p. 43, 1872 (n.n. for *dimidiatus* Stål).
Distant, Ann. Mag. Nat. Hist., Ser. 7, v, pp. 393, 433, 1900.
Distant, Biol. Centr. Am., Heter., i, p. 80, pl. 7, fig. 7, 1880.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.
Localities: N. Mex. (Neotropical.)

184. **Banasa calva** (Say)

Say, Heter. N. Harm., p. 7, 1832; Fitch reprint, p. 763; Compl. Writ., i, p. [318, *Pentatoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876; iii, p. 404, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 379, 1878, *Atomosira.*
Lethierry and Severin, Cat. Génl. Hémip., i, p. 198, 1893, *Pentatoma.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
Gillette and Baker, Hemip. Colo., p. 17, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 59, 1904.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 23, 1910.
catinus (Dallas), List of Hemip., i, p. 282, 1851, *Rhaphigaster.*
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 23, 1910.
†*dimidiata* Provancher, Pet. Faune Ent. Can., iii, p. 46, 1885.
Localities: "Canada," N. Y., Pa., Va., N. C., Ga., Colo., Mont.

185. **Banasa lenticularis** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 174.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.
Localities: Fla. (West Indies.)

186. **Banasa sordida** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871, *Atomosira.*
Stål, Enum. Hemip., ii, p. 44, 1872.

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 378, 1878, *Atomosira.*
Gillette and Baker, Hemip. Colo., p. 17, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 60, 1904.
Localities: Mass., Md., Va., Colo., N. Mex., Ariz., Calif., Vanc. Isd.

187. **Banasa packardi** Stål

Stål, Enum. Hemip., ii, p. 43, 1872.
Smith, Cat. Ins. N. J., Edn. 2, p. 121, 1900.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.
Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.
Localities: N. J., N. C., Ga., Fla.

188. **Banasa euchlora** Stål

Stål, Enum. Hemip., ii, p. 44, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904
Localities: Md., S. C., Ga., Fla., Ia., Okl., Texas.

189. **Banasa imbuta** (Walk.)

Walker, Cat. Heter., ii, p. 358, 1867, *Rhaphigaster.*
Distant, Biol. Centr. Am., Heter., i, p. 80, pl. 7, fig. 10, 1880.
Barber, Brookl. Inst. Sci. Bul., i, p. 261, 1906.
Localities: Texas. (Mexico.)

Genus **Piezodorus** Fieb.
Haplotype *degeeri* Fieb. = *lituratus* (Fabr.)

Feiber, Europ. Hemip., pp. 78, 329, 1861.
Stål, Hemip., Afr., i, p. 198, 1864 (as subgen. of *Nezara.*)
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 38, 1872.
Stål, Enum. Hemip., ii, p. 44, 1872; v, pp. 66, 100, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 81, 1880.

190. **Piezodorus guildinii** (Westw.)

Westwood, Hope Cat., p. 31, 1837, *Rhaphigaster.*
Dallas, List of Hemip., i, p. 283, 1851, *Rhaphigaster.*
Stål, Enum. Hemip., ii, p. 45, 1872.
‡*guildani* (Herrich-Schaeffer), Wanz. Ins., Verz., p. 181, 1853, *Rhaphigaster.*
‡*guildingi,* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 175.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904. [1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 10, 1907; ix, p. 157,
Localities: Ga., Fla., N. Mex. (West Indies.)

191. **Piezodorus(?) lituratus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 114, 1794, *Cimex.*
Wolff, Icon. Cimic., i, p. 14, fig. 14, 1800, *Cimex.*
Fabricius, Syst. Rhyng., p. 170, 1803, *Cimex.*
Burmeister, Handb. d. Ent., ii, p. 365, 1835, *Cimex.*
Stål, Hemip. Fabr., i, p. 31, 1868.
Vollenhoven, Hemip. Neerl., p. 41, 1878, *Cimex.*
Reuter, Berl. Ent. Zeit., xxix, p. 42, 1885.

Reuter, Rev. Synon., p. 127, 1888.

‖*bilobus* (Gmelin) *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2149, 1788.

incarnata (Germar), Fauna Ins. Europ., iv, p. 23, 1818, *Pentatoma*. [*Cimex*.

Herrich-Schaeffer, Nomen. Ent., i, p. 57, 1835, *Rhaphigaster*.

Spinola, Essai sur les Hémip., p. 350, 1837 (1840), *Rhaphigaster*.

Kolenati, Melet. Ent., iv, p. 56, 1845, *Rhaphigaster*.

Mulsant and Rey, Punais. de Fr., Pent., p. 301, 1866.

Puton, Cat. Hémip. Palae., Edn. 3, p. 13, 1886.

Distant, Ann. Mag. Nat. Hist., Ser. 7, v, p. 421, 1900.

Distant, Proc. Zool. Soc. Lond. for 1900, p. 823.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.

purpuripennis (Hahn), Wanz. Ins., ii, p. 62, fig. 151, 1834, *Pentatoma*.

Rambur, Fauna And., p. 125, 1842, *Rhaphigaster*.

Amyot and Serville, Hémip., p. 148, 1843, *Rhaphigaster*.

Gorski, Anal. Ent., i, p. 101, 1852, *Pentatoma*.

Herrich-Schaeffer, Wanz. Ins., Verz., p. 183, 1853, *Rhaphigaster*.

Douglas and Scott, Br. Hemip., p. 100, 1865.

[Not *Cimex purpureipennis* De Geer, which is a *Carpocoris*.]

punctulatus (Westwood), Hope Cat., i, p. 31, 1837, *Rhaphigaster*.

‡*purpuripenne* (Blanchard), Hist. des Ins., Hémip., p. 149, 1840, *Pentatoma*.

degeeri Fieber, Europ. Hemip., p. 329, 1861.

[The var. *aliaceum* Germ. has not been taken here.]

Localities: Fla. (Europe.)

Genus **Arvelius** Spin.

Logotype *gladiator* (Fabr.) = *albopunctatus* (De Geer)

Spinola, Essai sur les Hémip., p. 344, 1837 (1840).
Amyot and Serville, Hémip., p. 150, 1843.
Spinola, Tavola Sinot., p. 34, 1850.
Dallas, List of Hemip., i, p. 301, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 531, 1867.
Walker, Cat. Heter., iii, p. 572, 1868.
Distant, Biol. Centr. Am., Heter., i, p. 82, 1880.
Kirkaldy, Cat. Hemip., i, p. 150, 1909. (Names *albopunctatus* type.)

192. **Arvelius albopunctatus** (De Geer)

De Geer, Mémoirs, iii, p. 331, pl. 34, fig. 6, 1773, *Cimex*.
Goeze, Ent. Beytr., ii, p. 243, 1778, *Cimex*.
Amyot and Serville, Hémip., p. 150, 1843.
Dallas, List of Hemip., i, p. 302, 1851.
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 374, 1857, *Pentatoma*.
Stål, Stet. Ent. Zeit., xxiii, p. 108, 1862.
Stål, Enum. Hemip., ii, p. 47, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 290, 1876.
Berg, Hemip. Argent., p. 59, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 82, 1880.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 173.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 61, 1904.
Barber, Brookl. Inst., Sci. Bul., i, p. 261, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.

gladiator (Fabricius), Syst. Ent., p. 705, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 285, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1778, *Cimex.*
Fabricius, Ent. Syst., iv, p. 101, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 162, 1803, *Cimex.* [*Pentatoma.*
Palisot–Beauvois, Ins. Rec. Afr. Am., p. 127, pl. Hémip. 9, fig. 1, 1805,
Le Peletier and Serville, Encyc. Meth., x, p. 56, 1825, *Pentatoma.*
Burmeister, Handb. d. Ent., ii, p. 359, 1835, *Acanthosoma.*
Spinola, Essai sur les Hemip., p. 346, 1837 (1840).
Herrich–Schaeffer, Wanz. Ins., v, p. 104, fig. 557, 558, 1839.
Blanchard, Hist. de Ins., Hémip., p. 146, 1840, *Acanthosoma.*
Herrich–Schaeffer, Wanz. Ins., viii, p. 5, 1848, *Acanthosoma.*

leucostictus (Gmelin) *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2148,
——— Stoll, Abh. Wanz., p. 13, fig. 12, 1792 (without name). [1788, *Cimex.*

luteicornis (Westwood), Hope. Cat., i, p. 30, 1837, *Acanthosoma.*

Localities: Fla., Texas, Ariz., Calif.

Genus **Neopharnus** Van D.
Orthotype *fimbriatus* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 73, 1910.

193. **Neopharnus fimbriatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 73, 1910.
Locality: Fla.

Genus **Dendrocoris** Bergr.
Haplotype *humeralis* Uhl.

Bergroth, Revue d'Ent., x, p. 228, 1891 (n.n. for *Liotropis* Uhl.)
Barber, Brookl. Inst. Sci. Bul., i, p. 262, 1906.
Kirkaldy, Cat. Hemip., i, p. 151, 1909.
Barber, Ent. News, xxii, p. 268, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, pp. 438, 439, 1915. (Key.)
‖*Liotropis* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 399, 1877.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904. (Key.)

194. **Dendrocoris humeralis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 400, 1877, *Liotropis.*
Bergroth, Revue d'Ent., x, pp. 228, 229, 1891.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904, *Liotropis.*
Barber, Ent. News, xxii, p. 269, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.
Localities: Vt., Mass., N. J., Pa., Md., W. Va., Ga., Ohio, Ia., Kan., Colo., Calif.(?).

195. **Dendrocoris fruticicola** Bergr.

Bergroth, Revue d'Ent., x, p. 228, 1891.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904. *Liotropis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 157, 1909.

Bueno and Engelhardt, Can. Ent., xlii, p. 148, 1910.
Barber, Ent. News, xxii, p. 269, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.
Localities: N. C., Fla.

196. **Dendrocoris reticulatus** Barb.

Barber, Ent. News, xxii, p. 270, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 439, 1915.
†*fruticicola* Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 126, 1912.
Localities: New Mex., Ariz., Calif.

197. **Dendrocoris arizonensis** Barb.

Barber, Ent. News, xxii, p. 270, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.
Locality: Ariz.

198. **Dendrocoris pini** Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 51, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904, *Liotropis*.
Barber, Ent. News, xxii, p. 269, 1911.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 439, 1915.
Localities: Colo., Utah, Texas, Ariz., Calif.

199. **Dendrocoris contaminatus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 390, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 62, 1904, *Liotropis*.
Osborn, Ent. News, xx, p. 177, 1909, *Liotropis* (on cactus).
Barber, Ent. News, xxii, p. 269, 1911.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 440, 1915.
Localities: Utah, Texas, N. Mex., Ariz., Calif.

Genus **Odmalea** Bergr.
Orthotype *quadripunctula* Bergr.

Bergroth, Ann. Soc. Ent. Fr., lxxxiii, p. 436, 1915.

200. **Odmalea schaefferi** (Barb.)

Barber, Brookl. Inst. Sci. Bul., i, p. 262, 1906, *Dendrocoris*.
Barber, Ent. News, xxii, p. 269, 1911, *Dendrocoris*.
Bergroth, Ann. Soc. Ent. Fr., lxxxiii, pp. 438, 439, 1915, *Dendrocoris*.
Locality: Texas.

Genus **Brepholoxa** Van D.
Haplotype *heidemanni* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.
Van Duzee, Can. Ent., xli, p. 384, 1909.

201. **Brepholoxa heidemanni** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 78, 1904.
Locality: Fla.

TRIBE *EDESSINI* Kirk.

Kirkaldy, Cat. Hemip., i, pp. 34, 153, 1909.

Genus **Edessa** Fabr.
Orthotype *cervus* Fabr.

Fabricius, Syst. Rhyng., p. 145, 1803.
Laporte, Essai Classif. Syst. Hémip., p. 62, 1832.
Burmeister, Handb. d. Ent., ii, p. 353, 1835.
Spinola, Essai sur les Hémip., p. 342, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 143, 1840.
Amyot and Serville, Hémip., p. 158, 1843.
Spinola, Tavola Sinot., p. 32, 1850.
Dallas, List of Hemip., i, pp. 317, 319, 1851.
Stål, Stet. Ent. Zeit., xxiii, p. 109, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 532, 1867.
Stål, Enum. Hemip., ii, p. 49, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 86, 1880. [*bifida* Say.)
Ascra Say, Ins. of La., p. 8, 1832; Compl. Writ., i, p. 304. (Haplotype
Dorypleura Amyot and Serville, Hémip., p. 157, 1843. (Haplotype *bubalus*
[Lep.)
Hypoxys Amyot and Serville, Hémip., p. 157, 1843. (Haplotype *quadridens*
[Fabr.)
Pygoda Amyot and Serville, Hémip., p. 159, 1843. (Haplotype *polita* Lep.)
Aceratodes Amyot and Serville, Hémip., p. 160, 1843. (Haplotype *cruen-*
[*tus* Fabr.)

202. **Edessa bifida** (Say)

Say, Ins. of La., p. 7, 1832; Heter. N. Harm., p. 9, 1832; Fitch reprint, p.
[767; Compl. Writ., i, pp. 303, 322, *Pentatoma.*
Stål, Enum. Hemip., ii, p. 154, 1872.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 176 (in part).
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
albirenis (Herrich-Schaeffer), Wanz. Ins., vii, p. 127, fig. 774, 1844.
Dallas, List of Hemip., i, p. 336, 1851, *Aceratodes.*
‖*cornuta* (Guerin) *in* Sagra, Hist. de Cuba, Ins., p. 376, 1857, *Pentatoma.*
Localities: Fla., La., Texas.

Subfamily ACANTHOSOMINAE (Stål)

Stål, Hemip. Afr., i, pp. 33, 219, 1864, *Acanthosomida.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 532, 1867; xxvii, p. 638, 1870, *Acanthosomina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 3, pp. 32, 39, 1872, *Acanthosomina.*
Stål, Enum. Hemip., ii, p. 61, 1872; v, p. 108, 1876, *Acanthosomina.*
Distant, Biol. Centr. Am., Heter., i, p. 100, 1881.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 250, 1893, *Acanthosomidae.*
Distant, Fauna Br. Ind., Rhyng., i, p. 313, 1902, *Acanthosomatinae.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904, *Acanthosomidae*
Oshanin, Verz. Palae., Hemip., i, p. 165, 1906, *Acanthosomina.*
Kirkaldy, Cat. Hemip., i, pp. 34, 166, 1909, Tribe *Acanthosomini.*
Oshanin, Kat. Palae., Hemip., p. 17, 1912.

Genus **Meadorus** M. & R.

Logotype †*interstinctus* M. & R. = *griseus* (Linn.)

Mulsant and Rey, Punais. de Fr., Pent., p. 315, 1866.
Kirkaldy, Cat. Hemip., i, p. 175, 1909. (As synon.; names *griseus* type.)
‖*Clinocoris* Hahn, Wanz. Ins., ii, p. 70, 1834. (Haplotype *haemorrhoidalis*
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 39, 1872. [Fabr.)
Stål, Enum. Hemip., v, pp. 110, 114, 1876.
Oshanin, Verz. Palae., Hemip., i, p. 170, 1906.
†*Sastragala* Fieber, Europ. Hemip., pp. 78, 327, 1861.
¶*Elasmucha* Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 54, 1864.
Stål, Hemip. Afr., i, p. 220, 1864 (*nomen nudum* here).
Stål, Hemip. Fabr., i, p. 39, 1868. (Includes *ferrugator* and two others.)
Bergroth, Ent. News, xviii, p. 49, 1907.
Kirkaldy, Cat. Hemip., i, p. 175, 1909. (Names *ferrugator* type.)
Oshanin Kat. Palae., Hemip., p. 18, 1912.
†*Acanthosoma* Distant, Biol. Centr. Am., Heter., i, p. 100, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 47, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904. (Key.)
†*Elasmostethus* Lethierry and Severin, Cat. Génl. Hémip., i, p. 255, 1893.
Distant, Fauna Br. Ind., Rhyn., i, p. 326, 1902. (Gives *griscum* Linn. [as type.)

203. **Meadorus lateralis** (Say)

Say, Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 757; Compl. Writ., i, p.
Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma*. [312, *Edessa*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878, *Acanthosoma*.
Distant, Biol. Centr. Am., Heter., i, p. 101, 1881, *Acanthosoma*.
Provancher, Pet. Faune Ent. Can., iii, p. 48, 1885, *Acanthosoma*.
Distant, Proc. Zool. Soc. Lond. for 1900, p. 817, *Acanthosoma*.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904, *Acanthosoma*.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905, *Acanthosoma*.
Bergroth, Ent. News, xviii, p. 49, 1907, *Elasmucha*.
Van Duzee, Can. Ent., xl, p. 109, 1908, *Clinocoris*.
Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910, *Elasmucha*.
Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 7, p. 15, 1912, *Elas-*
Horvath, Ann. Mus. Natl. Hung., x, p. 608, 1912, *Elasmucha*. [*mucha*.
nebulosa (Kirby), Richardson's Fauna Bor. Am., iv, p. 277, 1837; Reprint [in Can. Ent., x, p. 138, 1878, *Edessa*.
Dallas, List of Hemip., i, p. 307, 1851, *Acanthosoma*.
Stål, Stet. Ent. Zeit., xxiii, p. 109, 1862, *Elasmostethus*.
affinis (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma*.
picicolor (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma*.
Localities: Quebec, Ont., N. H., N. Y., N. J., Vanc. Isd. (Mexico.)

Genus **Elasmostethus** Fieb.

Logotype *dentatus* De Geer = *interstinctus* Linn.

Fieber, Europ. Hemip., pp. 78, 328, 1861.
Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 54, 1864. (Names *dentatus* De Geer
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 39, 1872. [type.)
Oshanin, Verz. Palae., Hemip., i, p. 168, 1906.
Bergroth, Ent. News, xviii, p. 49, 1907.

Kirkaldy, Cat. Hemip., i, p. 177, 1909.
Oxydalus Mulsant and Rey, Punais. de Fr., Pent., p. 324, 1867. (Haplo- [type *dentatus* De Geer.)
‡*Elasmatostethus* Marshall, Ent. Mo. Mag., iv, p. 281, 1868.

204. **Elasmostethus cruciatus** (Say)

Say, Heter. N. Harm, p. 2, 1831; Fitch reprint, p. 756; Compl. Writ., i, p. 311,
Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Acanthosoma.* [*Edessa.*
Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma.*
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324, *Acanthosoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894, *Acanthosoma.*
Distant, Proc. Zool. Soc. Lond. for 1900, p. 818, *Acanthosoma.*
Van Duzee, Trans. Am. Ent., Soc., xxx, p. 73, 1904, *Acanthosoma.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905, *Acanthosoma.*
Bergroth, Ent. News, xviii, p. 49, 1907.
borealis (Westwood), Hope Cat., i, p. 30, 1837, *Acanthosoma.*
Stål, Enum. Hemip., ii, p. 61, 1872, *Acanthosoma.*
Localities: Quebec, Ont., N. H., N. Y., N. J., N. C., Colo., Utah, N. Mex., Vanc. Isd.

205. **Elasmostethus cooleyi** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 74, 1904, *Acanthosoma.* (As var.
Bergroth, Ent. News, xviii, p. 49, 1907. [of *cruciata.*)
Locality: Mont.

206. **Elasmostethus atricornis** (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xxx, p. 75, 1904, *Acanthosoma.*
Bergroth, Ent. News, xviii, p. 48, 1907.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
†*cruciata* (Provancher), Pet. Faune Ent. Can., iii, p. 48, 1885, *Acanthosoma.*
Localities: Quebec, N. Y., Ind.

Subfamily ASOPINAE (Spin.)

Spinola, Tavola Sinot., pp. 29, 30, 1850, *Asopoideae.*
Dallas, List of Hemip., i, p. 75, 1851, Fam. *Asopidae.*
Stål, Hemip. Afr., i, pp. 32, 62, 1864, *Asopida.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 495, 1867, *Asopina.*
Stål, Enum. Hemip., i, p. 21, 1870, *Asopina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 31, 1872, *Asopina.*
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
Distant, Biol. Centr. Am., Heter., i, p. 26, 1880.
Puton, Cat. Hémip. Palae., Edn. 3, p. 14, 1886, Tribe *Asopini.*
Uhler, Check List, p. 3, 1886, *Asopina.*
Distant, Fauna Br. Ind., Rhyn., i, pp. 2, 243, 1902.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904, *Asopidae.*
Oshanin, Verz. Palae. Hemip., i, p. 151, 1906, *Asopina.*
Schouteden, Genera Ins., Fasc. 52, p. 2, 1907.
Schumacher, Zeit. f. Wissen. Insek., vi, p. 263, 1910. (Biology.)
Oshanin, Kat. Palae. Hemip., p. 18, 1912.

Zimmer, Univ. Neb. Studies, xi, pp. 220, 234, 1912.
Arminae, Bergr., Rev. Russe Ent., iv, p. 32, 1904.
Schouteden, Rhyn., Aethop., i, Fasc. 2, p. 133, 1905.
Bergroth, Wien. Ent. Zeit., xxx, pt. 6–7, p. 129, 1911.
Amyoteinae Schouteden, Genera Ins., Fasc. 52, p. 2, 1907.
Cimicinae Kirkaldy, Cat. Hemip., p. 3, 1909.

Genus **Stiretrus** Lap.

Logotype *decemguttatus* Lep. & Serv.

Laport, Essai Classif. Syst. Hémip., p. 75, 1832.
Spinola, Essai sur les Hemip., p. 356, 1837.
Germar, Zeits. f. Ent., i, p. 10, 1839.
Herrich-Schaeffer, Wanz. Ins., v, p. 23, 1839.
Amyot and Serville, Hémip., p. 75, 1843.
Spinola, Tavola Sinot., p. 30, 1850.
Dallas, List of Hemip., i, p. 78, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
Stål, Enum. Hemip., i, p. 22, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 26, 1880.
Schouteden, Genera Ins., Fasc. 52, p. 6, 1907. (Names *decemguttatus* type.)
Kirkaldy, Cat. Hemip., i, p. 30, 1909. (Names *smaragdulus* pseudotype.)
Stiretrosoma Spinola, Essai sur les Hémip., p. 356, 1837 (1840). (Logo-
Amyot and Serville, Hémip., p. 76, 1843. [type *erythrocephalus* Lep.)
‖*Stictonotus* Stål, Enum. Hemip., i, p. 22, 1870 (subgen.).
Schouteden, Genera Ins., Fasc. 52, p. 7, 1907. (Names *rugosus* logo-
Oncogaster Stål, Enum. Hemip., i, p. 24, 1870 (as subgenus). [type.)
Schouteden, Genera Ins., Fasc. 52, pp. 7, 8, 1907. (Names *ceruleus*
[Dall. type.)
‖*Stictocoris* Kirkaldy, Entomol., xxxvii, p. 279, 1904 (n.n. for *Stictonotus*
Schouteden, Genera Ins., Fasc. 52, p. 7, 1907. [Stål.)
Stictonotion Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for
[*Stictocoris* Kirk.)
Stiretroides Schouteden, Genera Ins., Fasc. 52, pp. 7, 9, 1907 (as subgen.
[with type *loratus*.)
Kirkaldy, Cat. Hemip., i, p. 30, 1909. (Names *latipes* pseudotype.)

207. **Stiretrus anchorago** (Fabr.)

Fabricius, Spec. Ins., ii, p. 341, 1781, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2132, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 86, 1794, *Cimex*.
Fabricius, Syst. Rhyng., p. 137, 1803, *Tetyra*.
Dallas, List of Hemip., i, p. 80, 1851.
Stål, Enum. Hemip., i, p. 24, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 63, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 8, 1907.
pulchellus (Westwood), Hope Cat., p. 42, 1837, *Pentatoma*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
inflata Schumacher, Sitz. Ges. Nat.-for. Freunde for 1912, p. 96 (as subsp.).

a. var. **fimbriatus** (Say)
Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 93, pl. 43, *Tetyra.*
Germar, Zeit. f. Ent., i, p. 16, 1839.
Herrich-Schaeffer, Wanz. Ins., p. 193, 1853.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 369, 1878.
Smith, Cat. Ins. N. J., Edn. 3, p. 137, fig. 59, 1910.
variegatus (Herrich-Schaeffer), Wanz. Ins., iv, p. 90, fig. 427, 1839,
†*anchorago* Schouteden, Genera Ins., Fasc. 52, pl. 1, fig. 3, 1907. [*Asopus.*

b. var. **diana** (Fabr.)
Fabricius, Syst. Rhyng., p. 137, 1803, *Tetyra.*
Burmeister, Handb. d. Ent., ii, p. 381, 1835, *Asopus.*
Germar, Zeit. f. Ent., i, p. 19, 1839.
Herrich-Schaeffer, Wanz. Ins., v, p. 3, fig. 454, 1839.
‖*anchorago* (Westwood), Hope Cat., i, p. 42, 1837, *Pentatoma.*
ornatus Dallas, List of Hemip., i, p. 80, 1851.
anchorago var. Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 15, 1880.

c. var. **personatus** Germ.
Germar, Zeit. f. Ent., i, p. 16, 1839.
Stål, Stet. Ent. Zeit., xxiii, p. 85, 1862.
Stål, Enum. Hemip., i, p. 25, 1870.

d. var. **violaceus** (Say)
Say, Am. Ent., iii, pl. 43, 1828; Compl. Writ., i, p. 94, *Tetyra.*
Germar, Zeit. f. Ent., i, p. 12, 1839.
Amyot and Serville, Hémip., p. 76, pl. 1, fig. 1, 1843.
Dallas, List of Hemip., i, p. 79, 1851.
Stål, Enum. Hemip., i, p. 25, 1870.
Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 14, 1880.
Localities: Mass., Conn., N. Y., N. J., Pa., Md., N. C., Va., Ga., Fla., La., Kan., N. Mex., Texas.

Genus **Heterosceloides** Schoutd.
Orthotype *lepida* (Stål)

Schouteden, Genera Ins., Fasc. 52, p. 19, 1907.

208. **Heterosceloides lepida** (Stål)
Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862, *Phyllochirus.*
Distant, Biol. Centr. Am., Heter., i, p. 33, pl. 3, fig. 21, 1880, *Heteroscelis.*
Schouteden, Genera Ins., Fasc. 52, p. 20, pl. 1, fig. 6, 1907.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914, *Heteroscelis.*
scutellaris (Walker), Cat. Heter., iii, p. 529, 1868, *Bodetria.*
Localities: Texas. (Neotropical.)

Genus **Alcaeorrhynchus** Bergr.
Haplotype *grandis* (Dall.)

Bergroth, Revue d'Ent., x, p. 235, 1891 (n.n. for *Mutyca* Stål).
Schouteden, Genera Ins., Fasc. 52, p. 32, 1907. (Names *grandis* type.)
‖*Mutyca* Stål, Rio Jan. Hemip., ii, p. 58, 1858.
Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
Stål, Enum. Hemip., i, p. 48, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 35, 1880.

209. **Alcaeorrhynchus phymatophora** (P. B.)

Palisot-Beauvois, Ins. Rec. Af. Am., p. 112, pl. Hémip. 8, fig. 2, 1805, *Penta-*
Amyot and Serville, Hémip., p. 82, 1843, *Canthecona.* [*toma.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 32, 1853, *Canthecona.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 364, 1857, *Canthecoma.*
Stål, Enum. Hemip., i, p. 48, 1870, *Mutyca.*
Berg, Hemip. Argent., p. 33, 1879, *Mutyca.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904, *Mutycha.*
Schouteden, Genera Ins., Fasc. 52, p. 32, 1907.
Localities: Fla. (Neotropical.)

210. **Alcaeorrhynchus grandis** (Dall.)

Dallas, List of Hemip., i, p. 91, 1851, *Canthecona.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 31, 1853, *Canthecona.*
Stål, Rio Jan. Hemip., ii, p. 58, 1858, *Mutyca.*
Stål, Stet. Ent. Zeit., xxiii, p. 90, 1862, *Mutyca.*
Distant, Biol. Centr. Am., Heter., i, p. 36, 1880, *Mutyca.*
Berg, Hemip. Argent., p. 180, 1884, *Mutyca.*
†*phymatophora* (Stål), Enum. Hemip., i, p. 48, 1870, *Mutyca* (part).
Berg, Hemip. Argent., p. 33, 1879, *Mutyca* (part).
Localities: Fla. (Neotropical.)

Genus **Oplomus** Spin.
Logotype *tripustulatus* Fabr.

Spinola, Essai sur les Hémip., p. 355, 1837 (1840).
Spinola, Tavola Sinot., p. 30, 1850.
Dallas, List of Hemip., i, p. 82, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
Stål, Enum. Hemip., i, p. 26, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 29, 1880.
Schouteden, Genera Ins., Fasc. 52, p. 32, 1907. (Names *tripustulatus* type.)
Catostyrax Amyot and Serville, Hémip., p. 82, 1843. (Haplotype *catena*
‡*Hoplomus* Gistel, Naturges des Thierr., p. x, 1848. [Drury.)

Subgenus **Polypoecilus** Stål
Haplotype *dichrous* (H. S.)

Stål, Enum. Hemip., i, p. 26, 1870.
Schouteden, Genera Ins., Fasc. 52, pp. 33, 34, 1907. (Names *dichrous* type.)

211. **Oplomus dichrous** (H. S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 89, fig. 426, 1839, *Asopus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 167, 1853, *Platynopus.*
Stål, Stet. Ent. Zeit., xxiii, p. 86, 1862.
Stål, Enum. Hemip., i, p. 26, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 29, pl. 1, fig. 16, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 64, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 34, 1907.
var. *a, b,* Stål, Enum. Hemip., i, p. 26, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 29, 1880.
a. var. **rubropictus** Voll.
Vollenhoven, Tidskr. v. Ent., vi, p. 121, 1863.

Walker, Cat. Heter., iii, p. 529, 1868.
var. *c, d*, Stål, Enum. Hemip., i, p. 26, 1870.
Distant, Biol. Centr. Am., Heter., i, pp. 29, 30, 1880.

b. var. **rhodomelas** (H. S.)
Herrich-Schaeffer, Wanz. Ins., iv, p. 90, fig. 428, 1839, *Asopus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 168, 1853, *Platynopus.*
vars. *e–g*, Stål, Enum. Hemip., i, pp. 26, 27, 1880.
vars. *e–h*, Distant, Biol. Centr. Am., Heter., i, p. 30, pl. 1, fig. 16, 1880.
Localities: Ariz., Pa. (accidental). (Neotropical.)

Subgenus **Oplomus** Spin.

Stål, Enum. Hemip., i, p. 27, 1870. [type.)
Schouteden, Genera Ins., Fasc. 52, pp. 34, 35, 1907. (Names *tripustulatus*

212. **Oplomus tripustulatus** (Fabr.)

Fabricius, Syst. Rhyng., p. 172, 1803, *Cimex.*
Spinola, Essai sur les Hémip., p. 355, 1837 (1840).
Dallas, List of Hemip., i, p. 86, 1851.
Stål, Hemip. Fabr., i, p. 15, 1868.
Stål, Enum. Hemip., i, p. 28, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 30, 1880.
var. *a*, Stål, Enum. Hemip., i, p. 28, 1870.

a. var. **flavoguttatus** Voll.
Vollenhoven, Tidskr. v. Ent., vi, p. 123, 1863.
basalis Walker, Cat. Heter., i, p. 122, 1867.
var. *b*, Stål, Enum. Hemip., i, p. 28, 1870.

b. var. **chrysomelas** Walk.
Walker, Cat. Heter., i, p. 121, 1867.
var. *c, d*, Stål, Enum. Hemip., i, p. 28, 1870.

c. var. *e–g*, Stål
Stål, Enum. Hemip., i, p. 28, 1870.

d. var. **salamandra** (Burm.)
Burmeister, Handb. d. Ent., ii, p. 381, 1835, *Asopus.*
Dallas, List of Hemip., i, p. 84, 1851.
Walker, Cat. Heter., i, p. 120, 1867.
Distant, Biol. Centr. Am., Heter., i, pl. 4, fig. 16, 1880.
var. *h, i*, Stål, Enum. Hemip., i, pp. 28, 29, 1870.

e. var. **tibialis** (Fabr.)
Fabricius, Syst. Rhyng., p. 176, 1803, *Cimex.*
Stål, Hemip. Fabr., i, p. 16, 1868.
——— Stoll, Punais., p. 88, fig. 206, 1792 (without name).
var. *h*, Stål, Enum. Hemip., i, p. 29, 1870.
var. *l, m*, Stål, Enum. Hemip., i, p. 29, 1870.

f. var. **violaceus** Dall.
Dallas, List of Hemip., i, p. 85, 1851.
Localities: Fla. (typical form). (Neotropical.)

213. **Oplomus mundus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 87, 1862.
Stål, Enum. Hemip., i, p. 30, 1870.

Distant, Biol. Centr. Am., Heter., i, p. 32, pl. 4, fig. 17, 1880.
Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.
Schouteden, Genera Ins., Fasc. 52, p. 35, 1907.
Localities: Texas. (Neotropical.)

Genus **Perillus** Stål
Logotype *confluens* H. S.

Stål, Stet. Ent. Zeit., xxiii, p. 88, 1862 (subgen. of *Oplomus*).
Stål, Of. Vet. Akad. Forh., xxiv, p. 496, 1867.
Stål, Enum. Hemip., i, p. 31, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 33, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 32, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 64, 1904. (Key.)
Schouteden, Genera Ins., Fasc. 52, pp. 11, 36, 1907. (Names *confluens* type.)
Van Duzee, Can. Ent., xli, p. 370, 1909.
Perilloides Schouteden, Genera Ins., Fasc. 52, pp. 11, 37, 1907. (Ortho-
Kirkaldy, Cat. Hemip., i, p. 6, 1909. [type *bioculatus* Fabr.)
Zimmer, Univ. Neb. Studies, xi, p. 234, 1912.

214. **Perillus confluens** (H. S.)

Herrich-Schaeffer, Wanz. Ins., v, p. 77, fig. 552, 1839, *Asopus*.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 168, 1853, *Podisus*.
Stål, Stet. Ent. Zeit., xxiii, p. 88, 1862.
Walker, Cat. Heter., i, p. 120, 1867, *Oplomus*.
Stål, Enum. Hemip., i, p. 32, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 33, pl. 1, fig. 18, 1880.
Cockerell, Trans. Am. Ent. Soc., xx, p. 361, 1893.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 65, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 37, 1907.
Localities: Colo., Texas, N. Mex., Ariz. (Neotropical.)

215. **Perillus splendidus** (Uhler)

Uhler, Proc. Ent. Soc., Phila., i, p. 22, 1861, *Zicrona*.
Stål, Enum. Hemip., i, p. 32, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 121, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 66, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 39, 1907.
Localities: Colo.(?), Texas, Calif. (Mexico.)

216. **Perillus bioculatus** (Fabr.)

Fabricius, Syst. Ent., p. 715, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 248, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 358, 1781, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 295, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2157, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 120, 1794, *Cimex*.

Fabricius, Syst. Rhyng., p. 175, 1803, *Cimex.*
Stål, Enum. Hemip., ii, p. 129, 1872.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 206, 1893.
Gillette and Baker, Hemip. Colo., p. 12, 1895, *Mineus.*
Smith, Cat. Ins. N. J., Edn. 2, p. 117, 1900, *Mineus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 66, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 37, 1907, *Perilloides.*
Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides.*
Zimmer, Univ. Neb. Studies, xi, p. 234, 1912, *Perilloides.*

a. var. **clanda** (Say)

Say, Jl. Acad. Nat. Sci. Phil., iv, p. 312, 1825; Compl. Writ., ii, p. 240, *Penta-*
‡*claudus* Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872. [*toma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iii, p. 398, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 504, 1878.
Uhler, Check List, p. 4, 1886.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Gillette and Baker, Hemip. Colo., p. 12, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 67, 1904.
Localities: Ont., N. Y., N. J., Ia., Neb., Kan., Dak., Wyo., Colo., Utah, Nev., Mont., N. Mex., Ariz., Calif., Oregon, Idaho.

217. **Perillus circumcinctus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 89, 1862.
Stål, Enum. Hemip., i, p. 32, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 34, pl. 6, fig. 6, 1880.
Provancher, Pet. Faune Ent. Can., iii, p. 32, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 67, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 37, 1907, *Perilloides.*
Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides.*
Zimmer, Univ. Neb. Studies, xi, p. 235, 1912, *Perilloides.*
marginatus Provancher, Nat. Can., iv, p. 74, 1872.
Localities: Ont., N. H., Mass., N. Y., N. J., Ill., Mo., Neb., Dak.

218. **Perillus exaptus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 313, 1825; Compl. Writ., ii, p. 240,
Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Zicrona.* [*Pentatoma.*
Stål, Enum. Hemip., i, p. 32, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 281, 1876; iv, p. 504, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 369, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 33, 1885.
Gillette and Baker, Hemip. Colo., p. 12, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 107, 1903; xxx, p. 65, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 38, pl. 3, fig. 2, 1907, *Perilloides.*
Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910, *Perilloides.*

Zimmer, Univ. Neb. Studies, xi, p. 234, 1912, *Perilloides*.
variegata (Kirby), *in* Richardson, Fauna Bor. Am., iv, p. 267, 1837, *Pentatoma*.
Kirby *in* Bethune's reprint, p. 135, *Pentatoma*.
marginella (Dallas), List of Hemip., i, p. 109, 1851, *Zierona*.
Localities: Quebec, Ont., Mass., N. Y., N. J., Ill., Mo., Dak., Wyo., Colo., N. Mex., Mont., Utah, Manitoba, Wash.

Genus **Rhacognathus** Fieb.
Haplotype *punctatus* (Linn.)

Fieber, Europ. Hemip., pp. 81, 347, 1861.
Stål, Of. Vet. Akad. Forh., xxiv, p. 498, 1867; xxix, No. 3, p. 40, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 33, 1885.
Schouteden, Genera Ins., Fasc. 52, p. 54, 1907.

219. **Rhacognathus americanus** Stål

Stål, Enum. Hemip., i, p. 33, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 34, 1885.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 55, 1907.
Localities: Ohio, Ill., Manitoba.

Genus **Euthyrhynchus** Dall.
Haplotype *floridanus* (Linn.)

Dallas, List of Hemip., i, pp. 77, 104, 1851.
Dohrn, Cat. Hemip., p. 8, 1859 (spelled *Eutyrhynchus*).
Stål, Enum. Hemip., i, p. 54, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 41, 1880.
Schouteden, Genera Ins., Fasc. 52, p. 55, 1907.

220. **Euthyrhynchus floridanus** (Linn.)

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 719, 1767, *Cimex*.
Fabricius, Syst. Ent., p. 702, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 192, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 346, 1781, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 284, 1787, *Cimex*.
Gmelin, *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2136, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 96, 1794, *Cimex*.
Fabricius, Syst. Rhyng., p. 158, 1803, *Cimex*.
Burmeister, Handb. d. Ent., ii, p. 380, 1835, *Asopus*.
Herrich-Schaeffer, Wanz. Ins., iv, p. 102, fig. 450, 1839, *Asopus*.
Blanchard, Hist. des Ins., Hemip., p. 154, 1840, *Stiretrus*.
Amyot and Serville, Hémip., p. 84, 1843, *Asopus*.
Dallas, List of Hemip., i, p. 104, 1851.
Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862.
Stål, Enum. Hemip., i, p. 54, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 41, pl. 1, fig. 21, 1880.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 73, 1904.
Schouteden, Genera Inst., Fasc. 52, p. 56, pl. 4, fig. 2, 1907.
Bueno and Brimley, Ent. News, xviii, p. 443, 1907.
punicus (Linnaeus), Syst. Nat.. Edn. 12, i, pt. 2, p. 719, 1767, *Cimex*.
Fabricius, Syst. Ent., p. 703, 1775, *Cimex*.

Goeze, Ent. Beytr., ii, p. 194, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 346, 1781, *Cimex.*
Fabricius, Mantissa, Ins., ii, p. 285, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2138, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 97, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 159, 1803, *Cimex.*
Dallas, List of Hemip., i, p. 104, pl. 2, fig. 1, 1851.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 19, 1853, *Asopus.*
emarginata (Say), Heter. N. Harm., p. 4, 1831; Fitch reprint, p. 758; [Compl. Writ., i, p. 313, *Pentatoma.*
trivittatus (Herrich-Schaeffer), Wanz. Ins., iv, p. 103, fig. 451, 1839,
colorata (Walker), Cat. Heter., i, p. 136, 1867, *Arma.* [*Asopus.*
Localities: Pa., Ga., N. C., Tenn., La.

Genus **Mineus** Stål
Orthotype *strigipes* (H. S.)

Stål, Of. Vet. Akad. Forh., xxiv, p. 498, 1867.
Schouteden, Genera Ins., Fasc. 52, p. 61, 1907.

221. **Mineus strigipes** (H. S.)

Herrich-Schaeffer, Wanz. Ins., ix, p. 338, 1853, *Podisus.*
Walker, Cat. Heter., i, p. 144, 1867, *Tynacantha*(?).
Stål, Enum. Hemip., i, p. 32, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 67, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 61, pl. 4, fig. 10, 1907.
Bueno and Brimley, Ent. News, xviii, p. 443, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 224, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 137, 1910.
Olsen, Jl. N. Y. Ent. Soc., xx, p. 56, 1912.
Localities: N. Y., N. J., Md., D. C., Va., N. C., S. C., Ga., Ohio, Texas (?), N. Mex.(?).

Genus **Apateticus** Dall.
Haplotype *halys* Dall. = *lineolatus* (H. S.)

Dallas, List of Hemip., i, p. 105, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 498, 1867 (as subgenus).
Stål, Enum. Hemip., i, p. 49, 1870.
Schouteden, Genera Ins., Fasc. 52, pp. 68, 70, 1907 (part).
Van Duzee, Can. Ent., xli, p. 371, 1909.
Bergroth, Wien. Ent. Zeit., xxx, pt. 6–7, p. 129, 1911.
Zimmer, Univ. Neb. Studies, xi, p. 236, 1912. [as type.)
†*Podisus* Distant, Fauna Br. Ind., Rhyn., i, p. 253, 1902. (Cites *lineolatus*

Subgenus **Apateticus** Dall.

Van Duzee, Can. Ent., xli, p. 371, 1909.

222. **Apateticus lineolatus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., v, p. 69, fig. 514, 1839, *Halys.*
Stål, Enum. Hemip., ii, p. 129, 1872, *Podisus.*
Distant, Biol. Centr. Am., Heter., i, p. 36, 1880, *Podisus.*
Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906, *Podisus.*

Schouteden, Genera Ins., Fasc. 52, p. 70, pl. 5, fig. 7, 1907.
Van Duzee, Can. Ent., xli, p. 371, 1909.
halys Dallas, List of Hemip., i, p. 105, pl. 2, fig. 2, 1851.
Stål, Stet. Ent. Zeit., xxiii, p. 93, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 498, 1867.
Distant, Biol. Centr. Am., Heter., i, pl. 1, fig. 19, 1880.
punctipennis (Herrich-Schaeffer), Wanz. Ins., ix, p. 338, 1853, *Podisus.*
Localities: Fla., Texas. (Neotropical.)

223. **Apateticus marginiventris** (Stål)

Stål, Enum. Hemip., i, p. 49, 1870, *Podisus.*
Distant, Biol. Centr. Am., Heter., i, p. 37, pl. 4, fig. 24, 1880, *Podisus.*
Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 36, 1909, *Podisus.*
Van Duzee, Can. Ent., xli, p. 371, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 236, 1912.
gillettei (Uhler), Hemip. Colo., p. 12, 1895, *Podisus.*
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 418, pl. 1, fig. 6, 1897,
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 69, 1904, *Podisus.* [*Podisus.*
Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.
Localities: Neb., Colo., Ariz. (Mexico.)

Subgenus **Apoecilus** Stål
Haplotype *grandis* (Dall.) = *cynicus* (Say)

Stål, Enum. Hemip., i, p. 49, 1870.
Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.
Van Duzee, Can. Ent., xli, p. 371, 1909.

224. **Apateticus cynicus** (Say)

Say, Heter. N. Harm., p. 3, 1831; Fitch reprint, p. 757; Compl. Writ., i, p. [312, *Pentatoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876; iv, p. 504, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878, *Podisus.*
Uhler, Stand. Nat. Hist., ii, p. 291, 1884, *Podisus.*
Provancher, Pet. Faune Ent. Can., iii, p. 29, 1885, *Podisus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894, *Podisus.*
Gillette and Baker, Hemip. Colo., p. 12, 1895, *Podisus.*
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 425, pl. 1, fig. 7, 1897, *Podisus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1904, *Podisus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Podisus.*
Heidemann, Proc. Ent. Soc. Wash., vi, p. 9, 1904, *Podisus.*
Schouteden, Genera Ins., Fasc. 52, p. 71, pl. 5, fig. 8, 1907.
Zimmer, Univ. Neb. Studies, xi, p. 237, 1912.
grandis (Dallas), List of Hemip., i, p. 96, 1851, *Arma.*
Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 335, 1856, *Arma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867, *Podisus.*
Stål, Enum. Hemip., i, p. 49, 1870.
Lethierry and Severin, Cat. Génl. Hémip., i, p. 218, 1893, *Podisus.*
Localities: Quebec, Ont., Mass., N. Y., Pa., Md., Ill., Mo., Dak., Neb., Kan., Wisc., Colo., Texas, Ariz.

225. **Apateticus bracteatus** (Fitch)

Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 336, 1856, *Arma.*
Gillette and Baker, Hemip. Colo., p. 12, 1895, *Podisus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 350, 1904, *Podisus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1904, *Podisus.*
Heidemann, Proc. Ent. Soc. Wash., vi, p. 10, 1904, *Podisus.*
Schouteden, Genera Ins., Fasc. 52, p. 70, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 225, 1908.
Kirkaldy, Cat. Hemip., i, p. 22, 1909.
Zimmer, Univ. Neb. Studies, xi, p. 237, 1912.
Localities: Quebec, Mass., N. Y., Neb., Idaho, Vanc. Isd.

226. **Apateticus crocatus** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 384, 1897, *Podisus.*
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 422, 1897, *Podisus.*
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 70, 1907, *Podisus.*
Schouteden, Genera Ins., Fasc. 52, p. 70, 1907. [var. of *cynicus.*)
[*obscuripes* Uhl MS] Riley, Rept. U. S. Dept. Agr. for 1878, p. 245. (As
[*crocatus* Uhl. MS] Hagen, Can. Ent., xvi, p. 40, 1884, *Podiscus.*
Localities: Manitoba, Colo., Utah, Ariz., Calif., Oregon, Wash., Vanc. Isd.

Genus **Podisus** H. S.
Logotype *vittipennis* H. S. = *bifidus* Lap.

Herrich-Schaeffer, Wanz. Ins., ix, pp. 296, 337, 1853.
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
Stål, Enum. Hemip., i, p. 48, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 36, 1880.
Provancher, Pet. Faune Can., iii, p. 29, 1885.
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 412, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.
Kirkaldy, Entomol., xli, p. 124, 1908. (Names *vittipennis* type.)
Van Duzee, Can. Ent., xli, p. 370, 1909.
Kirkaldy, Cat. Hemip., i, p. 18, 1909 (subgen. of *Apateticus*).
Bergroth, Wien. Ent. Zeit., xxx, pt. 6–7, p. 129, 1911.

Subgenus **Podisus** H. S.

Van Duzee, Can. Ent., xli, p. 371, 1909.
Telepta Stål, Rio Jan. Hemip., i, p. 10, 1860. (Logotype *distinctus* Stål.)
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867. [type.)
Kirkaldy, Cat. Hemip., i, p. 18, 1909. (Names *crassimargo* pseudo-
Eupodisus Schouteden, Genera Ins., Fasc. 52, pp. 70, 71, 1907. (Orthotype
[*modestus* Dall.)

227. **Podisus maculiventris** (Say)

Say, Ins. of La., p. 11, 1832, *Pentatoma;* reprint *in* Psyche, viii, p. 307, 1899.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
Morrill, U. S. Dept. Agr., Div. Ent., Bul. 60, pp. 155–161, 1906.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
Kirkaldy, Cat. Hemip., i, p. 19, 1909.

Olsen, Jl. N. Y. Ent. Soc., xviii, p. 40, 1910.
Zimmer, Univ. Neb. Studies, xi, p. 237, 1912, *Apateticus*.
spinosa (Dallas), List of Hemip., i, p. 98, 1851, *Arma*.
Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 336, 1856, *Arma*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
Stål, Enum. Hemip., i, p. 51, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876; iii, p. 399, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 31, 1885.
Van Duzee, Can. Ent., xxi, p. 2, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Gillette and Baker, Hemip. Colo., p. 13, 1895.
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 431, pl. 1, fig. 4, 1897.
pallens (Stål), Freg. Eugen. Resa, Ins., p. 222, 1859, *Arma*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
Stål, Enum. Hemip., i, p. 51, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 228, 1894.
Kirkland, Mass. St. Bd. Agric. Rept., xlv, p. 421, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus*.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 124, 1912, *Apateticus*.
Localities: Quebec, Ont., Vt., Mass., N. Y., Pa., Md., N. C., Ga., Fla., Ohio, Wisc., Neb., Kan., Okl., Texas, Manitoba, Mont., Colo., Ariz., Calif., Vanc. Isd.

227½. **Podisus fretus** Olsen

Olsen, Bul. Brookl. Ent. Soc., xi, p. 82, 1916.
Localities: Mass., N. Y., N. J., N. C.

228. **Podisus serieventris** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 94, 1871; xix, p. 370, 1878.
Gillette and Baker, Hemip. Colo., p. 13, 1895.
?Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 429, pl. 1, fig. 2, 1897. (Not well [distinguished from *maculiventris*.)
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
Van Duzee, 20th Rept. N. Y., St. Ent., p. 548, 1905.
Van Duzee, Can. Ent., xxxviii, p. 406, 1906.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus*.
Van Duzee, Can. Ent., xliv, p. 318, 1912.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Minn., Colo., Mont., Vanc. Isd.

229. **Podisus modestus** (Dall.)

Dallas, List of Hemip., i, p. 101, 1851, *Arma*.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 17, 1853, *Arma*.
Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 390, 1856, *Arma*.
Stål, Enum. Hemip., i, p. 51, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876; iii, p. 399, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 370, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 38, pl. 4, fig. 4, 1880.

Provancher, Pet. Faune Ent. Can., iii, p. 30, 1885.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 170, 1894.
Gillette and Baker, Hemip. Colo., p. 13, 1895.
Kirkland, Mass. St. Bd. Agr., Rept. xiv, p. 419, pl. 1, fig. 9, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907, *Apateticus.*
Zimmer, Univ. Neb. Studies, xi, p. 237, 1912, *Apateticus.*
?aggressor (Walker), Cat. Heter., ii, p. 359, 1867, *Rhaphigaster.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Ga., Ohio, Ill., Dak., Neb., Colo., Mont.

230. **Podisus placidus** Uhl.

Uhler, Am. Ent., ii, p. 203, 1870.
Gillette and Baker, Hemip. Colo., p. 13, 1895.
Uhler, Can. Ent., xxix, p. 116, 1897.
Van Duzee, Can. Ent., xxix, p. 160, 1897.
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 416, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 71, 1907.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 138, 1910, *Apateticus.*
Olsen, Jl. N. Y. Ent. Soc., xx, p. 57, 1912.
Zimmer, Univ. Neb. Studies, xi, p. 238, 1912, *Apateticus.*
Localities: Quebec., Ont., Mass., N. Y., N. J., Mich., Ia., Neb., Colo.

231. **Podisus sagitta** (Fabr.)

Fabricius, Ent. Syst., iv, p. 99, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 161, 1803, *Cimex.*
Stål, Enum. Hemip., i, p. 50, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 37, pl. 1, fig. 22, 1880.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 172.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
didymus (Palisot-Beauvois), Ins. Rec. Afr. Am., p. 128, pl. Hémip. 9, fig. [2, 1805, *Pentatoma.*
Amyot and Serville, Hémip., p. 85, 1843, *Arma.*
Dallas, List of Hemip., i, p. 102, 1851, *Arma.*
Stål, Stet. Ent. Zeit., xxiii, p. 90, 1865, *Telepta.*
Walker, Cat. Heter., i, p. 135, 1867, *Arma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
monospilus (Walker), Cat. Heter., i, p. 136, 1867, *Arma.*
Localities: Texas. (Neotropical.)

232. **Podisus fuscescens** (Dall.)

Dallas, List of Hemip., i, p. 102, 1851, *Arma.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 497, 1867.
Stål, Enum. Hemip., i, p. 50, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 38, pl. 4, fig. 20, 1880.
Barber, Brookl. Inst. Sci. Bul., i, p. 263, 1906.
Schouteden, Genera Ins., Fasc. 52, p. 71, 1907.
‖*fuscescens* (Stål), Stet. Ent. Zeit., xxiii, p. 90, 1862, *Telepta.*
Localities: Texas. (Mexico.)

233. **Podisus mucronatus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 386, 1897.
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 437, pl. 1, fig. 9, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 72, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
Localities: Fla. (Neotropical.)

Subgenus **Tylospilus** Stål

Logotype *chilensis* Spin.

Stål, Enum. Hemip., i, p. 52, 1870.
Schouteden, Genera Ins., Fasc. 52, pp. 70, 73, 1907. (Names *chilensis* type.)
Van Duzee, Can. Ent., xli, p. 371, 1909.

234. **Podisus acutissimus** Stål.

Stål, Enum. Hemip., i, p. 53, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 283, 1876, *Tylospilus*.
Distant, Biol. Centr. Am., Heter., i, p. 40, pl. 2, fig. 22, 1880.
Kirkland, Mass. St. Bd. Agr., Rept. xlv, p. 435, 1897.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 72, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
Localities: Colo., Texas, Ariz. (Mexico.)

Genus **Zicrona** Am. & Serv.

Haplotype *caerulea* (Linn.)

Amyot and Serville, Hémip., p. 86, 1843.
Dallas, List of Hemip., i, p. 107, 1851.
Fieber, Europ. Hemip., pp. 81, 346, 1861.
Douglas and Scott, Br. Hemip., p. 88, 1865.
Mulsant and Rey, Punais. de Fr., Pent., p. 360, 1866
Stål, Of. Vet. Akad. Forh., xxiv, p. 499, 1867.
Stål, Enum. Hemip., i, p. 36, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 3, p. 40, 1872.
Schouteden, Genera Ins., Fasc. 52, p. 74, 1907.

235. **Zicrona caerulea** (Linn.)

Linnaeus, Syst. Nat., Edn. 10, i, p. 445, 1758, *Cimex*.
Linnaeus, Fauna Suec., Edn. 2, p. 250, No. 933, 1761, *Cimex*.
Geoffroy, Hist. des Ins., i, p. 472, No. 75, 1762, *Cimex* (not binominal).
Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 722, 1767, *Cimex*.
De Geer, Mémoirs, iii, p. 268, 1773, *Cimex*.
Fabricius, Syst. Ent., p. 716, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 201, 1778, *Cimex*.
Schrank, Enum. Ins. Aust., p. 275, 1781, *Cimex*.
Fabricius, Spec. Ins., ii, p. 359, 1781, *Cimex*.
Foureroy, Ent. Paris., p. 218, 1785, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 296, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2154, 1788, *Cimex*.

Fabricius, Ent. Syst., iv, p. 123, 1794, *Cimex.*
Wolff, Icon. Cimic., i, p. 18, fig. 18, 1800, *Cimex.*
Walckenaer, Faune Paris., ii, p. 345, 1802, *Cimex.*
Fabricius, Syst. Rhyng., p. 178, 1803, *Cimex.*
Fallén, Monog. Cimic. Suec., p. 50, 1807, *Cimex.*
Tigny, Hist. Nat. Ins., Edn. 2, iv, p. 299, 1813, *Pentatoma.*
Curtis, Br. Ent., i, pl. 20, 1824, *Pentatoma.*
Fallén, Hemip. Suec., Cimic., p. 32, 1829, *Cimex.*
Hahn, Wanz. Ins., ii, p. 65, fig. 154, 1834, *Pentatoma.*
Herrich–Schaeffer, Nomen. Ent., i, p. 56, 1835, *Pentatoma.*
Burmeister, Handb. d. Ent., ii, p. 378, 1835, *Asopus.*
Spinola, Essai sur les Hémip., p. 323, 1837 (1840), *Cimex.*
Blanchard, Hist. des Ins., Hémip., p. 154, 1840, *Stiretrus.*
Amyot and Serville, Hémip., p. 86, 1843.
Herrich–Schaeffer, Wanz. Ins., vii, p. 112, 1844, *Asopus.*
Kolenati, Melet. Ent., iv, p. 37, 1846, *Asopus.*
Dallas, List of Hemip., i, p. 108, 1851.
Gorski, Anal. Ent., i, p. 114, 1852, *Asopus.*
Herrich–Schaeffer, Wanz. Ins., Verz., p. 17, 1853, *Arma.*
Flor, Rhyng., Livl., i, p. 90, 1860, *Asopus.*
Fieber, Europ. Hemip., p. 346, 1861.
Douglas and Scott, Br. Hemip., p. 88, pl. 3, fig. 3, 1865.
Mulsant and Rey, Punais. de Fr., Pent., p. 360, 1866.
Stål, Enum. Hemip., i, p. 36, 1870.
Reuter, Rev. Synon., p. 151, No. 80, 1888.
Saunders, Hemip. Heter. Br. Isds., p. 36, pl. 3, fig. 10, 1892.
Distant, Fauna Br. Ind., Rhyng., i, p. 255, fig. 163, 1902.
Van Duzee, Trans. Am. Ent. Soc., xxx, p. 68, 1904.
Schouteden, Genera Ins., Fasc. 52, p. 74, 1907. [history.)
Kershaw and Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xix, p. 333, 1909 (life
Schumacher, Zeit. f. Wissen. Insk., vii, p. 44, 1911(?) (life history.)

concinna (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma.*
violacea (Westwood), Hope Cat., i, p. 39, 1837, *Pentatoma.*
illustris Amyot and Serville, Hémip., p. 87, 1843.
cuprea Dallas, List of Hemip., i, p. 108, 1851.
Stål, Enum. Hemip., i, p. 37, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 395, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 282, 1876.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1323.
Gillette and Baker, Hemip. Colo., p. 12, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, 177, 1906.
Localities: Ont., N. H., Colo., Utah, Idaho, N. Mex., Ariz., Calif., Br. Col.

Superfamily COREOIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 38, 49, 1912.
Oshanin, Kat. Palae. Hemip., p. 20, 1912.

Family COREIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 121, 1815, *Coreides.*
Stephens, Cat. Br. Ins., ii, p. 340, 1829, *Coreidae.*
Laporte, Essai Classif. Syst. Hémip., p. 41, 1832, *Coreites.*
Leach, Brewster's Edinbg. Encyc., Am. Edn., viii, p. 710, 1832, Tribe *Coreides.*
Herrich-Schaeffer, Nom. Ent., i, p. 35, 1835, *Coreides.*
Burmeister, Handb. d. Ent., ii, p. 299, 1835, *Coreodes.*
Brullé, Hist. des Ins., ix, p. 348, 1835, *Coriens.*
Spinola, Essai sur les Hémip., p. 122, 1837, *Coreites.*
Costa, Cimic. Neap., Cent. i, p. 25, 1838, *Coreini.*
Blanchard, Hist. des Ins., Hémip., p. 115, 1840, *Coreites.*
Westwood, Intr. Mod. Classif. Ins., p. 482; Synop., p. 123, 1840, *Coreidae.*
Spinola, Tavola Sinot., pp. 26, 38, 1850, *Coreitae* (in part).
Herrich-Schaeffer, Wanz. Ins., ix, p. 232, 1853, *Coreodes.*
Flor, Rhyng., Livl., i, p. 164, 1860, *Coreodea.*
Fieber, Europ. Hemip., pp. 26, 55, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 203, 1862, *Coreida.*
Stål, Hemip. Afr., ii, p. 1, 1865, *Coreida.*
Douglas and Scott, Br. Hemip., pp. 16, 109, 1865, Section *Coreina.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 534, 1867, *Coreida.*
Stål, Enum. Hemip., i, p. 125, 1870, *Coreina.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872, *Coreidae.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876, *Coreidae.*
Distant, Biol. Centr. Am., Heter., i, p. 103, 1881, *Coreidae.*
Uhler, Check List, p. 9, 1886, *Coreidae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 1, 1894, *Coreidae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 331, 1902, *Coreidae.*
Oshanin, Verz. Palae. Hemip., i, p. 177, 1906, *Coreidae.*
Kirkaldy, Can. Ent., xlii, p. 63, 1910.
Horvath, Ann. Mus. Nat. Hung., ix, p. 8, 1911, *Coreidae.*
Supericornes Amyot and Serville, Hémip., pp. xxx, 183, 1843.
Dorhn, Cat. Hemip., p. 23, 1859, *Supericornia.*
Dallas, List of Hemip., ii, p. 369, 1851, Tribe *Supericornia.*
†*Lygaeidae* Kirkaldy, Entomol., xxxii, p. 220, 1899.
Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.
Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 146, 1907.
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Kirkaldy, Can. Ent., xl, p. 360, 1908.

Subfamily MEROCORINAE (Stål)

Stål, Enum. Hemip., i, p. 125, 1870, *Merocorina.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Merocorina.*
Berg, Hemip. Argent., p. 63, 1889, *Merocorina.*
Distant, Biol. Centr. Am., Heter., i, p. 103, 1881, *Merocorinae.*
Uhler, Check List, p. 9, 1886, *Merocorina.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913, *Merocorinae.*
Meropachydida Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 536, 1867.

Genus **Merocoris** Perty

Logotype *acridoides* Fabr. = *typhaeus* Fabr.

Perty, Del. Anim. Artic., p. 170, 1830.
Brullé, Hist. Nat. des Ins., ix, p. 357, 1835 (names *acridoides* type; valid?).
Blanchard, Hist. des Ins., Hémip., p. 117, 1840.
Amyot and Serville, Hémip., p. 243, 1843.
Dallas, List Hemip., ii, p. 419, 1852.
Stål, Of. Vet. Akad. Forh., xxiv, p. 537, 1867.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868.
Stål, Enum. Hemip., i, p. 129, 1870.
Berg, Hemip. Argent., p. 281, 1884.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913.

Corynomerus Spinola, Essai sur les Hémip., p. 126, 1837 (1840). (Haplo-
Spinola, Tavola Sinot., p. 40, 1850. [type *elevatus* Spin.)

Hebecerus Kolenati, Melet. Ent., ii, p. 65, 1845.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 243, 272, 1853.

Corynocoris Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868. (Logo-
Stål, Of. Vet. Akad. Forh., xxiv, p. 537, 1867. [type *typhaeus* Fabr.)
Stål, Enum. Hemip., i, p. 129, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 106, 1881.
Uhler, Check List Hemip., p. 10, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 4, 1894.
Banks, Cat. Nearc. Hemip., p. 81.
Van Duzee, Check List Hemip., p. 10, 1916.

236. **Merocoris typhaeus** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 537, 1798, *Lygaeus*.
Dallas, List of Hemip., ii, p. 419, 1852, *Merocoris*.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 95, 1868.
Stål, Enum. Hemip., i, p. 129, 1870.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 26, 1910.
Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.
Smith, Cat. Ins., N. J., Edn. 3, p. 145, 1910.

acridioides (Fabricius), Syst. Rhyng., p. 200, 1803, *Coreus*.
Wolff, Icon. Cimic., v, p. 192, fig. 186, 1811, *Coreus*.

rugosus (Amyot and Serville), Hémip., p. 244, 1843, *Merocoris*.

a. var. **distinctus** (Dall.)

Dallas, List of Hemip., ii, p. 419, 1852, *Merocoris*.
Stål, Enum. Hemip., i, p. 130, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 400, 1872, *Merocoris*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 106, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
Gillette and Baker, Hemip. Colo., p. 7, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 351, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.

Localities: Me., N. Y., N. J., Pa., Md., Va., N. C., Fla., Wisc., Ill., Mo., Kan., Okl., Colo., Utah, N. Mex., Texas, Ariz., Calif.

Subfamily COREINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 543, 1867, *Coreida*.
Stål, Enum. Hemip., i, p. 157, 1870, *Coreina*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 49, 50, 1872, *Coreina.*
Stål, Enum. Hemip., iii, pp. 33, 34, 1873, *Coreina.*
Distant, Biol. Centr. Am., Heter., i, p. 121, 1881, *Coreinae.*
Uhler, Check List, p. 11, 1886, *Coreinae.*
Oshanin, Kat. Palae. Hemip., p. 20, 1912, *Coreinae* (in part).
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 126, 1913, *Coreinae.*

TRIBE *ACANTHOCEPHALINI* (Stål)

Stål, Enum. Hemip., i, p. 149, 1870, *Acanthocephalina.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Acanthocephalina.*
Distant, Biol. Centr. Am., Heter., i, p. 117, 1881, *Acanthocephalinae.*
Uhler, Check List, p. 10, 1886, *Acanthocephalina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 30, 1894, *Acanthocephalidae.*
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910, *Acanthocephalinae.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 128, 1913, Div. *Acanthocephalaria.*
Placoscelidida Stål, Of. Vet. Akad. Forh., xxiv, p. 535, 1867.

Genus **Acanthocephala** Lap.
Orthotype *compressipes* (Fabr.) = *latipes* (Drury)

Laporte, Essai Classif. Syst. Hémip., p. 29, 1832.
Stål, Enum. Hemip., i, p. 149, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 117, 1881.
Uhler, Check List, p. 10, 1886.
‖*Diactor* Burmeister, Handb. d. Ent., ii, p. 233, 1835 (to replace *Acantho-* [*cephala* Lap.)
Metapodius Westwood, Hope Cat., ii, p. 4, 1842 (to replace *Acanthocephala* [Lap. and *Diactor* Burm.)
Stål, Of. Vet. Akad. Forh., xxiv, p. 541, 1867.
Walker, Cat. Heter., iv, p. 48, 1871.
‡*Metapodus* Amyot and Serville, Hémip., p. 192, 1843.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 126, 1853.

Subgenus **Acanthocephala** Lap.

Stål, Enum. Hemip., i, p. 149, 1871.

237. **Acanthocephala declivis** (Say)

Say, Ins. La., p. 10, 1832; Compl. Writ., i, p. 305, *Rhinuchus.*
Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 772, Compl. Writ., i, p.
Stål, Enum. Hemip., i, p. 150, 1870. [327, *Anisoscelis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 118, pl. 11, fig. 19, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.
?alatus (Burmeister), Handb. d. Ent., ii, p. 334, 1835, *Diactor.*
Stål, Enum. Hemip., i, p. 150, 1870.
?thoracicus (Dallas), List of Hemip., ii, p. 428, 1852, *Metapodius.*
Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Metapodius.*
Localities: Ga., Fla., La., Texas, N. Mex., Ariz. (Neotropical.)

Subgenus **Metapodiessa** Kirk.
Logotype *femorata* (Fabr.)

Kirkaldy, Entomol., xxxv, p. 137, 1902 (n.n. for *Metapodius* Stål).
†*Metapodius* Stål, Enum. Hemip., i, p. 150, 1870.

238. **Acanthocephala femorata** (Fabr.)

Fabricius, Syst. Ent., p. 708, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 240, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 351, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 288, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2142, 1788, *Cimex.*
Fabricius, Syst. Ent., iv, p. 137, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 205, 1803, *Lygaeus.*
Wolff, Icon. Cimic., v, p. 195, fig. 189, 1811, *Lygaeus.*
Dallas, List of Hemip., ii, p. 430, 1852, *Metapodius.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 126, 1853, *Metapodius.*
Stål, Enum. Hemip., i, p. 150, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Metapodius.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878, *Metapodius.*
Saunders, Ins. Inj to Fruits, p. 220, fig. 225, 1883, *Metapodius.*
Distant, Proc. Zool. Soc. Lond. for 1901, p. 329.
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.

nasulus (Say), Ins. La., p. 10, 1832; Compl. Writ., i, p. 305, *Rhinuchus.* Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 772; Compl. Writ., Kirkaldy, Can. Ent., xli, p. 30, 1909. [i, p. 327, *Anisoscelis.*

bispinus (Westwood), Hope Cat., ii, p. 15, 1842, *Metapodius.*

obscurus (Westwood), Hope Cat., ii, p. 15, 1842, *Metapodius.*

Localities: N. C., S. C., Ga., Fla., La., Okl., Texas.

239. **Acanthocephala granulosa** (Dall.)

Dallas, List of Hemip., ii, p. 430, 1852, *Metapodius.*
Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Metapodius.*
Stål, Enum. Hemip., i, p. 151, 1870.
Uhler, Wheeler's Surv. 100th Mer., v, p. 831, 1875, *Metapodius.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876, *Metapodius.*
Distant, Biol. Centr. Am., Heter., i, p. 120, pl. 11, fig. 18, pl. 12, fig. 9, 1881.
Distant, Biol. Centr. Am., Heter., i, p. 359, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894, *Metapodius.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.

†*alatus* (Herrich-Schaeffer), Wanz. Ins., vi, p. 53, fig. 613, 1842, *Diactor thomasii* (Uhler), Hayden's Surv. Terr., Rept. for 1871, p. 399, 1872, [*Metapodius.*

Localities: Texas, Ariz., Calif.

240. **Acanthocephala confraterna** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 99, 1871, *Metapodius.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 382, 1878, *Metapodius.*

Localities: Ga., Fla.

241. **Acanthocephala instabilis** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 98, 1871; xix, p. 381, 1878, [*Metapodius.*

Localities: Pa., N. C., Ga.

242. **Acanthocephala terminalis** (Dall.)

Dallas, List of Hemip., ii, p. 431, 1852, *Metapodius.*
Stål, Enum. Hemip., i, p. 151, 1870.

Uhler, Hayden's Surv. for 1871, p. 400, 1872, *Metapodius*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876, *Metapodius*.
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
†*femoratus* (Smith), Cat. Ins. N. J., Edn. 2, p. 122, 1900, *Metapodius*.
Localities: Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Ill., Mo., La., Okl., Texas, Colo.

TRIBE *ANISOSCELINI* (A. & S.)

Amyot and Serville, Hémip., pp. xxxiv, 217, 1843, *Anisoscelides*.
Dallas, List of Hemip., ii, p. 449, 1852, Fam. *Anisoscelidae* (part).
Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862, *Aniososcelidae*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867, Div. *Anisoscelidida*.
Stål, Enum. Hemip., i, p. 157, 1870, *Anisoscelidina*.
Stål, Enum. Hemip., iii, p. 35, 1873, Div. *Anisoscelaria*.
Distant, Biol. Centr. Am., Heter., i, p. 121, 1881, Div. *Anisoscelaria*.
Uhler, Check List, p. 11, 1886, *Anisoscelaria*. [*Anisoscelidae*.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 44, 1894, Subfam.
Distant, Fauna Br. Ind., Rhyn., i, p. 381, 1902, Div. *Anisoscelaria*.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910, Subfam. *Anisoscelinae*.
Banks, Cat. Nearc. Hemip., p. 77, 1912, *Anisoscelini*. [division.)
Holymeniaria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 142, 1913 (as

Genus **Chondrocera** Lap.
Orthotype *laticornis* Lap.

Laporte, Essai Classif. Syst. Hémip., p. 44, 1832.
Blanchard, Hist. des Ins., Hémip., p. 119, 1840 (as subgenus of *Coreus*).
Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.
Stål, Enum. Hemip., i, p. 158, 1870.
Petalotoma Guerin *in* Sagra Hist. de Cuba, Ins., p. 388, 1857.

243. **Chondrocera laticornis** Lap.

Laport, Essai Classif. Syst. Hémip., p. 45, pl. 53, fig. 7, 1832.
Blanchard, Hist. des. Ins., Hemip., p. 119, 1840, *Coreus*.
Stål, Enum. Hemip., i, p. 158, 1870.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 12, 1907.
Banks, Cat. Nearc. Hemip., p. 77, 1910. [1857, *Petalotoma*.
unicolor (Guerin) *in* Sagra, Hist. de Cuba, Ins., p. 389, pl. 13, fig. 8,
Localities: Fla. (West Indies.)

Genus **Leptoglossus** Guer.
Haplotype *dilaticollis* Guer.

Guerin, Voy. Coquil., Zool., ii, pt. 2, p. 174, 1838.
Stål, Enum. Hemip., i, p. 160, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 123, 1881.
Distant, Fauna Br. Ind., Rhyn., i, p. 382, 1902 (names *dilaticollis* type).
Kirkaldy, Entomol., xxxix, p. 257, 1906 (names *dilaticollis* type).

Heidemann, Proc. Ent. Soc. Wash., xii, p. 191, 1910.
†*Anisoscelis* Spinola, Essai sur les Hemip., p. 200, 1837 (1840).
Dallas, List of Hemip., ii, p. 452, 1852.
Theognis Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862. (Logotype *scripta*
Stål, Hemip. Afr., ii, pp. 8, 85, 1865. [Hahn.)
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 101, 1868.
Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.

244. **Leptoglossus phyllopus** (Linn.)

Linnaeus, Syst. Nat., Edn. 12, i, pt. 2, p. 731, 1767, *Cimex.*
Fabricius, Syst. Ent., p. 708, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 224, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 351, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 289, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 139, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 210, 1803, *Lygaeus.*
Wolff, Icon. Cimic., v, p. 196, fig. 190, 1811, *Lygaeus.*
Burmeister, Handb. d. Ent., ii, p. 332, 1835, *Anisoscelis.*
?Blanchard, Hist. des Ins., Hémip., p. 123, 1840, *Anisoscelis.*
Westwood, Hope Cat., ii, p. 16, 1842, *Anisoscelis.*
?Amyot and Serville, Hémip., p. 218, 1843, *Anisoscelis.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 103, 1868, *Theognis.*
Stål, Enum. Hemip., i, p. 161, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 400, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 124, 1881.
Distant, Proc. Zool. Soc. Lond. for 1901, p. 330.
Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.
Girault, Ent. News, xvii, p. 382, 1906 (feeding habits).
——— Stoll, Punaise, p. 30, fig. 54, 1792 (without name).
albicinctus (Say), Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 771; [Compl. Writ., i, p. 326, *Anisoscelis.*
Stål, Hemip. Fabr., i, p. 52, 1868.
fraterna (Westwood), Hope Cat., ii, p. 16, 1842, *Anisoscelis.*
confusa (Dallas), List of Hemip., ii, p. 453, 1852, *Anisoscelis.*
Localities: N. Y., Va., N. C., Fla., Mo., Okl., La., Texas, Ariz., (Neotropical.)

245. **Leptoglossus zonatus** (Dall.)

Dallas, List of Hemip., ii, p. 452, 1852, *Anisoscelis.*
Stål, Stet. Ent. Zeit., xxiii, p. 295, 1862, *Theognis.*
Stål, Enum. Hemip., i, p. 162, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 125, pl. 12, fig. 16, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.
Cockerell, Ent. News, xvi, p. 18, 1905.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Localities: Ariz., Calif.

246. **Leptoglossus corculus** (Say)

Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 770; Compl. Writ., i, p. 326, *Anisoscelis.*
Stål, Enum. Hemip., i, p. 165, 1870.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.
Gillette and Baker, Hemip. Colo., p. 17, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
excellens (Mayr), Verh. Zool.-Bot. Ges. Wien, xv, p. 434, 1865, *Thcognis.*
Localities: N. Y., N. J., Md., D. C., N. C., Ga., Fla., Tenn., Colo., N. Mex., Ariz., Calif.

247. **Leptoglossus occidentalis** Heid.

Heidemann, Proc. Ent. Soc. Wash., xii, p. 196, pl. 8, fig. 2, 1910.
Localities: Colo., Idaho, Calif., Vanc. Isd.

248. **Leptoglossus oppositus** (Say)

Say, Heter. N. Harm., p. 12, 1832; Fitch reprint, p. 771; Compl. Writ., i, p. [327, *Anisoscelis.*
Stål, Enum. Hemip., i, p. 163, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 298, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 383, 1878.
Distant, Trans. Ent. Soc. Lond. for 1900, p. 691.
Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
tibialis (Herrich-Schaeffer), Wanz. Ins., vii, p. 12, 1844, *Anisoscelis.*
Walker, Cat. Heter., iv, p. 125, 1871, *Anisoscelis.*
Localities: N. Y., N. J., Pa., Md., N. C., Ga., Ind., Ky., Okl., Texas. (Mexico.)

249. **Leptoglossus fulvicornis** (Westw.)

Westwood, Hope Cat., ii, p. 17, 1842, *Anisoscelis.*
Stål, Enum. Hemip., i, p. 161, 1870.
Distant, Proc. Ent. Soc. Lond. for 1901, p. 330, pl. 30, fig. 4.
magnoliae Heidemann, Proc. Ent. Soc. Wash., xii, p. 191, pl. 7, 1910; xiii, [p. 132, 1911 (egg).
Localities: Mass., N. Y., D. C., N. C., Ga., Fla.

250. **Leptoglossus gonagra** (Fabr.)

Fabricius, Syst. Ent., p. 708, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 241, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 352, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 289, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2143, *Cimex.*
Fabricius, Ent. Syst., iv, p. 140, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 210, 1803, *Lygaeus.*
Burmeister, Handb. d. Ent., ii, p. 332, 1835, *Anisoscelis.*
Westwood, Hope Cat., ii, p. 16, 1842, *Anisoscelis.*
Dallas, List of Hemip., ii, p. 453, 1852, *Anisoscelis.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 387, 1857, *Anisoscelis.*
Stål, Stet. Ent. Zeit., xxiii, p. 295, 1862, *Thcognis.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 103, 1868, *Thcognis gonager.*
Stål, Hemip. Fabr., i, p. 51, 1868.

Stål, Enum. Hemip., i, p. 165, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 126, 1881.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 417, 1901.
Banks, Cat. Nearc. Hemip., p. 78, 1910.

grallator (Herbst), Gem. Naturges., vi, p. 259, pl. 31B, fig. 2, 1784, *Cimex.*
antica (Herrich-Schaeffer), Wanz. Ins., iii, p. 92, fig. 316, 1835, *Anisoscelis.*
Dallas, List of Hemip., ii, p. 453, 1852, *Anisoscelis.*
praecipua (Walker), Cat. Heter., iv, p. 128, 1871, *Anisoscelis.*
Localities: Fla. (Neotropical.)

251. **Leptoglossus ashmeadi** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 237, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
Locality: Fla.

252. **Leptoglossus clypealis** Heid.

Heidemann, Proc. Ent. Soc. Wash., xii, p. 195, pl. 8, fig. 1, 1910.
Localities: Colo., Utah, N. Mex., Ariz., Calif., Oregon.

Genus **Narnia** Stål
Haplotype *femorata* Stål

Stål, Stet. Ent. Zeit., xxiii, pp. 294, 296, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 544, 1867.
Stål, Enum. Hemip., i, p. 166, 1871.
Distant, Biol. Cent. Am., Heter., i, p. 126, 1881.

Subgenus **Narnia** Stål

Van Duzee, Ent. News, xvii, p. 386, 1906.

253. **Narnia femorata** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 296, 1862.
Stål, Enum. Hemip., i, p. 166, 1870.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Distant, Biol. Centr. Am., Heter., i, p. 127, pl. 13, fig. 4, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
Van Duzee, Ent. News, xvii, p. 384, 1906.
Localities: Texas, N. Mex., Ariz. (Mexico.)

254. **Narnia inornata** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 361, pl. 33, fig. 10, 1892.
Banks, Cat. Nearc. Hemip., p. 78, 1910.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. 113, p. 41, 1913.
Localities: Calif. (Mexico.)

255. **Narnia pallidicornis** Stål

Stål, Enum. Hemip., i, p. 166, 1870.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.
Van Duzee, Ent. News, xvii, p. 385, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Hunter and Pratt., U. S. Dept. Agr., Div. Ent., Bul. 113, p. 32, 1913.
Localities: Texas, Ariz., Calif. (Mexico.)

Subgenus **Xerocoris** Van D.
Logotype *snowi* Van D.

Van Duzee, Ent. News, xvii, p. 384, 1906.
Van Duzee, Can. Ent., xl, p. 384, 1909 (names *snowi* type); xli, p. 372, 1910.

256. **Narnia snowi** Van D.

Van Duzee, Ent. News, xvii, p. 384, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. 113, p. 41, 1913.
Locality: Ariz.

257. **Narnia wilsoni** Van D.

Van Duzee, Ent. News, xvii, p. 385, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
Localities: Ariz., Calif.

TRIBE *LEPTOSCELINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867, *Leptoscelidida.*
Stål, Enum. Hemip., i, p. 167, 1870, Div. *Leptoscelidina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 50, 1894, Subfam. *Leptoscelidae.*
Bergroth, Mém. Soc. Ent. Belg., xx, p. 143, 1914, Div. *Leptoscelidaria.*

Genus **Phthia** Stål
Logotype *lunata* (Fabr.)

Stål, Stet. Ent. Zeit., xxiii, p. 294, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867.
Stål, Enum. Hemip., i, p. 169, 1870.

258. **Phthia picta** (Drury)

Drury, Illust. Exotic Ent., i, p. 107, pl. 45, fig. 1, 1770, *Cimex.*
Westwood, Hope Cat., ii, p. 17, 1842, *Leptoscelis.*
Dallas, List of Hemip., ii, p. 457, 1852, *Leptoscelis.*
Stål, Stet. Ent. Zeit., xxiii, p. 296, 1862.
Stål, Hemip. Fabr., i, p. 53, 1868.
Stål, Enum. Hemip., i, p. 170, 1870.
Walker, Cat. Heter., iv, p. 131, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 249, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 128, 1881.
Snow, Trans. Kan. Acad., Sci., xx, pt. 1, p. 151, 1906.
ciliatus (Fabricius), Syst. Ent., p. 706, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 348, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 286, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 103, 1794, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2140, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 103, 1794, *Cimex.*
Fabricius, Syst. Rhyng., p. 164, 1803, *Cimex.*
leprosus (Fabricius), Syst. Ent., p. 719, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 364, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 299, 1787, *Cimex.*

Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2171, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 154, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 222, 1803, *Lygaeus.*
candelabrum (Goeze), Ent. Beytr., ii, p. 254, 1778, *Cimex.*
crenulatus (Fabricius), Spec. Ins., ii, p. 353, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 290, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2144, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 144, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 250, 1803, *Alydus.*
dispar (Fabricius), Syst. Rhyng., p. 214, 1803, *Lygaeus.*
divisus (Herrich–Schaeffer), Wanz. Ins., vii, p. 9, fig. 685, 1844, *Anisoscelis.*
pulverulentus (Herrich–Schaeffer), Wanz. Ins., vii, p. 9, 1844, *Anisoscelis.*
obscura (Dallas), List of Hemip., ii, p. 458, 1852, *Leptoscelis.*
annulipes (Guerin) *in* Sagra, Hist. de Cuba, Ins., p. 388, 1857, *Anisoscelis.*
Localities: Texas, Calif. (Neotropical.)

Genus **Amblyomia** Stål
Haplotype *bifasciata* Stål

Stål, Enum. Hemip., i, p. 171, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 129, 1881.

259. **Amblyomia bifasciata** Stål

Stål, Enum. Hemip., i, p. 172, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 129, 1881.
Banks, Cat. Nearc. Hemip., p. 77, 1910.
Localities: "West States."

TRIBE *MICTINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 538, 1867, *Mictida.*
Stål, Enum. Hemip., i, p. 130, 1870, *Mictina;* iii, pp. 34, 37, 1873, Div. *Mictaria.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Mictina.*
Distant, Biol. Centr. Am., Heter., i, p. 106, 1881, *Mictinae.*
Uhler, Check List, p. 10, 1886, *Mictina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 5, 1894, *Mictidae.*
Oshanin, Verz. Palae. Hemip., i, p. 177, 1906, Div. *Mictaria.*
Oshanin, Kat. Palae. Hemip., p. 20, 1912, *Mictaria.*
Acanthoceraria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 144, 1913.

Genus **Thasus** Stål
Logotype *gigas* (Burm.)

Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 174, 1865.
Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
Stål, Enum. Hemip., i, p. 132, 1870.

260. **Thasus gigas** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 338, 1835, *Pachylis.*
Brullé, Hist. Nat. des Ins., ix, p. 368, 1835, *Pachylis.*
Blanchard, Hist. des Ins., Hémip., p. 121, 1840, *Pachylis.*
Dallas, List of Hemip., ii, p. 383, 1852, *Pachylis.*
Stål, Enum. Hemip., i, p. 132, 1870.
Uhler, Wheeler's Surv. 100th Mer., v, p. 831, 1875, *Pachylis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876, *Pachylis.*

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Pachylis.*
Distant, Biol. Centr. Am., Heter., i, p. 108, pl. 10, figs. 18, 19, 1881.
Uhler, Check List, p. 10, 1886, *Pachylis.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894, *Pachylis.*
Localities: N. Mex., Ariz. (Mexico.)

Genus **Mozena** Am. & Serv.
Haplotype *spinicrus* Am. & Serv. = *brunnicornis* (H. S.)

Amyot and Serville, Hémip., p. 192, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
Stål, Enum. Hemip., i, p. 134, 1870.
Walker, Cat. Heter., iv, p. 46, 1871.
†*Archimerus* Stål, Stet. Ent. Zeit., xxiii, pp. 277, 278, 1862.

Subgenus **Mozena** Am. & Serv.

Stål, Enum. Hemip., i, p. 134, 1870.

261. **Mozena brunnicornis** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 26, fig. 582, 1842, *Archimerus.*
Stål, Enum. Hemip., i, p. 134, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 109, 1881.
Banks, Cat. Neare. Hemip., p. 80, 1910.
spinicrus Amyot and Serville, Hémip., p. 192, 1843.
Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 175, 1865.
Walker, Cat. Hemip., iv, p. 46, 1871.
Localities: Ariz. (Mexico.)

262. **Mozena lineolata** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 25, fig. 581, 1842, *Archimerus.*
Dallas, List of Hemip., ii, p. 418, 1851, *Archimerus.*
Stål, Enum. Hemip., i, p. 134, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 110, 1881.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 158, 1907.
Localities: Ariz., Calif. (Mexico.)

263. **Mozena obtusa** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
Townsend, Can. Ent., xxiv, p. 193, 1892.
Barber, Brookl. Inst. Sci. Bul., i, p. 265, 1906.
Localities: Texas, N. Mex.

264. **Mozena lurida** (Dall.)

Dallas, List of Hemip., ii, p. 417, 1852, *Archimerus.*
Stål, Stet. Ent. Zeit., xxiii, p. 279, 1862, *Archimerus.*
Stål, Enum. Hemip., i, p. 135, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 111, pl. 12, fig. 1, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
Localities: Texas. (Neotropical.)

265. **Mozena lunata** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 322, 1835, *Archimerus.*
Herrich-Schaeffer, Wanz. Ins., vi, p. 24, fig. 580, 1842, *Archimerus.*

Dallas, List of Hemip., ii, p. 416, 1852, *Archimerus*.
Stål, Stet. Ent. Zeit., xxiii, p. 279, 1862, *Archimerus*.
Stål, Enum. Hemip., i, p. 134, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 110, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 264, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906; pt. 2, p. 158, 1907.
Localities: Texas, N. Mex., Ariz. (Mexico.)

Subgenus **Rhombogaster** Dall.
Haplotype *lutea* H. S.

Dallas, List of Hemip., ii, pp. 379, 415, 1852.
Stål, Enum. Hemip., i, p. 135, 1870.
†*Discogaster* Amyot and Serville, Hémip., p. 191, 1843.

266. **Mozena obesa** Montd.

Montandon, Bul. Soc. Sci. Bucarest, viii, p. 190, 1899.
Locality: Fla.

Genus **Capaneus** Stål
Logotype *rubro-notatus* Stål

Stål, Stet. Ent. Zeit., xxiii, pp. 277, 279, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
Stål, Enum. Hemip., i, p. 135, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 111, 1881.

Subgenus **Xuthus** Stål
Haplotype *auriculatus* Stål

Stål, Enum. Hemip., i, p. 136, 1870.

267. **Capaneus auriculatus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 289, 1862.
Stål, Enum. Hemip., i, p. 136, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 296, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 112, pl. 11, fig. 8, 1881.
Localities: Texas, N. Mex. (Neotropical.)

Subgenus **Rhyparopharus** Stål
Haplotype *spurcus* Stål

Stål, Enum. Hemip., i, p. 137, 1870.

268. **Capaneus spurcus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 291, 1862.
Distant, Biol. Centr. Am., Heter., i, p. 113, pl. 12, fig. 3, 1881.
Banks, Cat. Nearc. Hemip., p. 80, 1910.
Localities: Ariz. (Mexico.)

269. **Capaneus incubitor** (Fabr.)

Fabricius, Ent. Syst., iv, p. 136, 1794 *Lygaeus*.
Stål, Enum. Hemip., i, p. 227, 1870, *Lygaeus*.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 126, 1894, *Lygaeus*.
Locality: "Carolina."

Genus **Archimerus** Burm.

Logotype *squalus* Burm. = *alternatus* Say

Burmeister, Handb. d. Ent., ii, p. 321, 1835.
?Herrich-Schaeffer, Wanz. Ins., vi, p. 23, 1842; ix, p. 240, 1853.
Stål, Of. Vet. Akad. Forh., xxiv, p. 538, 1867.
Stål, Enum. Hemip., i, p. 137, 1871.
Distant, Biol. Centr. Am., Heter., i, p. 130, 1881.
Piezogaster Amyot and Serville, Hémip., p. 197, 1843.
Stål, Stet. Ent. Zeit., xxiii, pp. 277, 292, 1862. [*loricata* Dist.)
Ojedena Distant, Biol. Centr. Am., Heter., i, p. 356, 1892. (Haplotype

270. **Archimerus calcarator** (Fabr.)

Fabricius, Syst. Rhyng., p. 192, 1803, *Coreus.*
Stål, Hemip. Fabr., i, p. 47, 1868.
Stål, Enum. Hemip., i, p. 137, 1870 (not distinguished from next).
?Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 158, 1909.
Banks, Cat. Nearc. Hemip., p. 80, 1910 (part).
Localities: "Carolina," Fla.

271. **Archimerus alternatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 317, 1825; Compl. Writ., ii, p. 243, [*Coreus.*
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1872.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
squalus Burmeister, Handb. d. Ent., p. 321, 1835.
?rubiginosus Herrich-Schaeffer, Wanz. Ins., xi, p. 83, 1842.
mutieus Herrich-Schaeffer, Wanz. Ins., vi, p. 52, fig. 612, 1842.
?Walker, Cat. Heter., iv, p. 63, 1871.
albonotatus (Amyot and Serville), Hémip., p. 197, 1843, *Piezogaster.*
†*calcarator* Stål, Hemip. Fabr., i, p. 47, 1868.
Stål, Enum. Hemip., i, p. 137, 1870 (part).
Walker, Cat. Heter., iv, p. 62, 1871.
Uhler, Hayden's Surv. Terr. for 1871, p. 399, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894.
Gillette and Baker, Hemip. Colo., p. 17, 1895.
Banks, Cat. Nearc. Hemip., p. 80, 1910 (part).
Localities: N. J., N. C., Tenn., Ill., Mich., Wisc., Kan., Okl., Colo.

272. **Archimerus indecorus** Walk.

Walker, Cat. Heter., iv, p. 64, 1871.
Distant, Biol. Centr. Am., Heter., i, p. 114, pl. 12, figs. 4, 5, 1881.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
Localities: Ariz. (Mexico.)

273. **Archimerus ashmeadi** Montd.

Montandon, Bul. Soc. Sci. Bucarest, viii, p. 194, 1899.
Locality: Fla.

Genus **Mamurius** Stål

Haplotype *mopsus* Stål

Stål, Stet. Ent. Zeit., xxiii, pp. 278, 293, 1862.
Stål, Enum. Hemip., i, p. 138, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 115, 1881.

274. **Mamurius mopsus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 293, 1862.
Stål, Enum. Hemip., i, p. 138, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 115, pl. 12, fig. 15, 1881.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
Localities: Ariz. (Mexico.)

Genus **Hymeniphera** Lap.

Orthotype *crucifer* P. B.

Laporte, Essai Classif. Syst. Hémip., p. 43, 1832.
Kirkaldy, Entomol., xxxiii, p. 240, 1900.
‡*Hymenophora* Amyot and Serville, Hémip., p. 212, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 539, 1867.
Mayr, Reise Freg. Novara, Zool., ii, p. 88, 1868.
†*Acanthocerus* Stål, Enum. Hemip., i, p. 144, 1870.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 20, 1894.
Distant, Biol. Centr. Am., Heter., i, p. 116, 1881.

275. **Hymeniphera lobata** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 318, 1835, *Crinocerus*.
Herrich-Schaeffer, Wanz. Ins., vi, p. 17, fig. 573, 1842, *Crinocerus*.
Guerin, Sagra, Hist. de Cuba, Ins., p. 382, 1857, *Coreus* (*Camptischium*).
Stål, Enum. Hemip., i, p. 144, 1870.
Walker, Cat. Heter., iv, p. 113, 1871, *Crinocerus*.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.
Localities: N. Mex. (West Indies.)

Genus **Euthochtha** Mayr

Haplotype *galeator* (Fabr.)

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 431, 1865.
Mayr, Reise Freg. Novara, Zool., ii, p. 88, 1868.
Stål, Of. Vet. Akad. Forh., xxiv, p. 539, 1867.
Stål, Enum. Hemip., i, p. 145, 1870 (as subgen. of *Acanthocerus*).

276. **Euthochtha galeator** (Fabr.)

Fabricius, Syst. Rhyng., p. 191, 1803, *Coreus*.
Dallas, List of Hemip., ii, p. 408, 1852, *Crinocerus*.
Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 431, 1865.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 87, 1866.
Stål, Hemip. Fabr., i, p. 49, 1868.
Stål, Enum. Hemip., i, p. 145, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 381, 1878.
Bueno, Can. Ent., xl, p. 165, 1908 (larva).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909.
tibialis (Herrich-Schaeffer), Wanz. Ins., vi, p. 21, fig. 576, 1842, *Crinocerus*.
Localities: Mass., Conn., N. Y., N. J., Pa., Va., N. C., Fla., Ohio, Ill., Mich., Wisc., Neb., Kan., Texas.

TRIBE *CORECORINI* Van D.

Van Duzee, Check List Hemip., p. 12, 1916 (n.n. for *Spartoceridae* Dall.).
Spartoceridae Dallas, List of Hemip., ii, p. 369, 1852.
Stål, Of. Vet. Akad. Forh., xxiv, p. 545, 1867, *Spartocerida.*
Stål, Enum. Hemip., i, p. 172, 1870, Div. *Spartocerina.*
Berg, Hemip. Argent., p. 75, 1879, Div. *Spartoceraria.*
Distant, Biol. Centr. Am., Heter., i, p. 129, 1881, Div. *Spartoceraria.*
Menenotaria Bergroth, Mem. Soc. Ent. Belg., xxii, p. 147, 1913 (Division).

Genus **Corecoris** Hahn
Haplotype *cinnamomeus* Hahn

Hahn, Wanz. Ins., ii, p. 14, 1834.
¶*Spartocera* Laporte, Essai Classif. Syst. Hémip., pp. 42, 43, 1832.
‡*Spartocerus* Burmeister, Handb. d. Ent., ii, pp. 341, 342, 1835.
Herrich-Schaeffer, Wanz. Ins., vi, p. 11, 1842, *Spartocerus.*
Amyot and Serville, Hémip., p. 186, 1843, *Spartocera.*
Spinola, Tavola Sinot., p. 41, 1850, *Spartocera.*
Dallas, List of Hemip., ii, pp. 370, 373, 1852, *Spartocera.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 189, 1853, *Spartocera.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867, *Spartocera.*
Stål, Enum. Hemip., i, p. 172, 1870, *Spartocera.*
Walker, Cat. Hemip., iv, p. 4, 1871, *Spartocera.*
Distant, Biol. Centr. Am., Heter., i, p. 130, 1881, *Spartocera.*
‡*Corcocoris* Brullé, Hist. des Ins., ix, p. 365, 1835.
Spinola Essai sur les Hémip., p. 150, 1837.

277. **Corecoris fuscus** (Thunb.)

Thunberg, Nova Ins., Spec. ii, p. 44, 1783, *Cimex.*
Dohrn, Cat. Hemip., p. 23, 1859, *Spartocera.*
Stål, Rio Jan. Hemip., i, p. 29, 1860, *Spartocera.*
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 79, 1866, *Spartocera.*
Stål, Hemip. Fabr., i, p. 54, 1868, *Spartocera.*
Stål, Enum. Hemip., i, p. 174, 1870, *Spartocera.*
Berg, Hemip. Argent., p. 76, 1879, *Spartocera.*
Distant, Biol. Centr. Am., Heter., i, p. 130, 1881, *Spartocera.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 420, 1901, *Spartocera.*
moestus (Fabricius), Ent. Syst., iv, p. 198, 1794, *Reduvius.*
Fabricius, Syst. Rhyng., p. 193, 1803, *Coreus.*
Dallas, List of Hemip., ii, p. 374, 1852, *Spartocera.*
geniculatus (Burmeister), Handb. d. Ent., ii, p. 342, 1835, *Spartocerus.*
Herrich-Schaeffer, Wanz. Ins., vi, p. 89, fig. 660, 1842, *Spartocerus.*
Amyot and Serville, Hémip., p. 186, 1843, *Spartocera.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 378, 1857, *Coreus.*
serrulatus (Herrich-Schaeffer), Wanz. Ins., vi, pp. 12, 90, fig. 968, 1842,
lateritus (Westwood), Hope. Cat., ii, p. 7, 1842, *Spartocera.* [*Spartocera*
affinis (Westwood), Hope Cat., ii, p. 7, 1842, *Spartocera.*
†*diffusa* (Uhler), Proc. Zool. Soc. Lond. for 1893, p. 705, *Spartocera.*
Localities: Fla. (Neotropical.)

278. **Corecoris diffusus** (Say)

Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 770; Compl. Writ., i, p.
Stål, Enum. Hemip., i, p. 175, 1870, *Spartocera.* [325, *Coreus*

Uhler, Check List, p. 9, 1886, *Spartocera.*

†*cinnamomea* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876, *Sparto-*
Banks, Cat. Nearc. Hemip., p. 81, 1910, *Spartocera.* [*cera.*

Localities: Ga., Fla., N. Mex., Texas.

[This species may not be distinct from *fuscus.*]

279. **Corecoris confluentus** (Say)

Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 769; Compl. Writ., i, p.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 297, 1876, *Sagotylus.* [325, *Coreus.*
Uhler, Check List, p. 10, 1886, *Sagotylus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 233, 1894, *Sagotylus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 159, 1909, *Spartocera.*

Localities: Fla., Ariz., Calif. (Mexico.)

Genus **Sephina** Am. & Serv.
Haplotype *pustulata* (Fabr.)

Amyot and Serville, Hémip., p. 185, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867.
Stål, Enum. Hemip., i, p. 176, 1870.
Walker, Cat. Heter. iv, p. 3, 1871.
Distant, Biol. Centr. Am., Heter., i, p. 131, 1881.

280. **Sephina gundlachii** (Guer.)

Guerin *in* Sagra, Hist. de Cuba, Ins., p. 377, pl. 13, fig. 6, 1857, *Coreus.*
Stål, Enum. Hemip., i, p. 177, 1870.
Banks, Cat. Nearc. Heter., p. 81, 1910.

Localities: Fla. (Banks). (West Indies.)

281. **Sephina grayi** Van D.

Van Duzee, Ent. News, xx, p. 232, 1909.

Locality: Fla.

282. **Sephina limbata** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 273, 1862.
Stål, Enum. Hemip., i, p. 177, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 132, pl. 12, fig. 22, 1881.
Banks, Cat. Nearc. Hemip., p. 81, 1910.

Localities: Calif.(?) (Banks). (Neotropical.)

TRIBE *CHARIESTERINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 546, 1867, *Chariesterida.*
Stål, Enum. Hemip., i, p. 178, 1870, Div. *Chariesterina.*
Distant, Biol. Centr. Am., Heter., i, p. 133, 1881, *Chariesteria.*
Uhler, Check List., p. 9, 1886, *Chariesterina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 62, 1894, Subfam. *Chariesterida.*

Genus **Chariesterus** Lap.
Orthotype *gracilis* Lap. = *armatus* Thunb.

Laporte, Essai Classif. Syst. Hémip., p. 44, 1832.
Burmeister, Handb. d. Ent., ii, p. 316, 1835.
Spinola, Essai sur les Hémip., p. 145, 1837 (1840).

Blanchard, Hist. des Ins., Hémip., p. 120, 1840 (as subgen. of *Coreus*).
Amyot and Serville, Hémip., p. 210, 1843.
Herrich-Schaeffer, Wanz. Ins., vii, p. 3, 1844.
Spinola, Tavola Sinot., p. 41, 1850.
Dallas, List of Hemip., ii, p. 510, 1852.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 237, 248, 1853.
Stål, Of. Vet. Akad. Forh., xvi, p. 473, 1859; xxiv, p. 546, 1867.
Stål, Enum. Hemip., i, p. 178, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 133, 1881.

283. **Chariesterus antennator** (Fabr.)

Fabricius, Syst. Rhyng., p. 198, 1803, *Coreus*. [323, *Gonocerus*.
Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p.
Blanchard, Hist. des Ins. Hémip., p. 120, 1840 (excel. synon.).
Dallas, List of Hemip., ii, p. 510, 1852.
Stål, Enum. Hemip., i, p. 178, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 291, 1876; iii, p. 405, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 385, 1878.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 232, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910. [Writ., i, p. 323, *Gonocerus*.
dubius (Say), Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl.
†*moestus* (Herrich-Schaeffer), Wanz. Ins., vii, p. 3, fig. 681, 1844.
Localities: Pa., N. J., Va., N. C., Ga., Fla., Ind., Mich., Kan., Okl., Colo., Texas.

284. **Chariesterus cuspidatus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 364, pl. 33, fig. 14, 1892.
Barber, Brookl. Inst. Sci. Bul., i, p. 266, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
Localities: Texas. (Panama.)

285. **Chariesterus albiventris** Burm.

Burmeister, Handb. d. Ent., ii, p. 317, 1835.
Stål, Enum. Hemip., i, p. 178, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 134, pl. 13, fig. 11, 1881.
Snow, Trans. Kan. Acad. Sci., xx, pl. 1, p. 151, 1906.
Localities: Texas. (Mexico.)

TRIBE *COREINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867, *Coreida*.
Stål, Enum. Hemip., i, p. 180, 1870, *Coreina*.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 51, 1872, *Corearia*.
Stål, Enum. Hemip., iii, p. 37, 1873, *Corearia*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876, *Coreina*.
Distant, Biol. Centr. Am., Heter., i, p. 135, 1881, Div. *Corearia*.
Uhler, Check List, p. 11, 1886, *Corearia*.
Oshanin, Kat. Palae. Hemip., p. 21, 1912, *Corearia*.

Bergroth, Mém. Soc. Ent. Belg., xxii, p. 153, 1913 (as division).
Centroscelidae Lethierry and Severin, Cat. Génl. Hémip., ii, p. 69, 1894 [(as subfamily.)
Oshanin, Verz. Palae. Hemip., i, p. 185, 1906, Div. *Centroscelidaria.*
Hypselonotaria Bergroth, Mém. Soc. Ent. Belg., xxii, p. 149, 1913 (as [division.)

Genus **Madura** Stål
Haplotype *fusco-clavata* Stål

Stål, Rio Jan. Hemip., i, p. 35, 1860.
Stål, Stet. Ent. Zeit., xxiii, p. 305, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867.
Distant, Biol. Centr. Am., Heter., i, p. 135, 1881.

286. **Madura perfida** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 304, 1862.
Stål, Enum. Hemip., i, p. 180, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 135, pl. 13, fig. 16, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 179, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.
Localities: Texas. (West Indies, Mexico.)

Genus **Chelinidea** Uhler
Haplotype *vittiger* Uhler

Uhler, Trans. Am. Ent. Soc., ii, p. 365, 1863.
Stål, Enum. Hemip., i, p. 180, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 136, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 54, 1885. [*tabulata* Burm.)
Xiphares Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867. (Orthotype

287. **Chelinidea tabulata** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 311, 1835, *Gonocerus.*
Stål, Stet. Ent. Zeit., xxiii, p. 304, 1862, *Plunentis.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867, *Xiphares.*
Stål, Enum. Hemip., i, p. 181, 1870.
Walker, Cat. Heter., iv, p. 184, 1871, *Xiphares.*
Distant, Biol. Centr. Am., Heter., i, p. 136, pl. 13, fig. 17, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 19, 1913.
Localities: Texas, Utah, Colo., Calif. (Mexico.)

288. **Chelinidea vittiger** Uhl.

Uhler, Trans. Am. Ent. Soc., ii, p. 366, 1863.
Stål, Enum. Hemip., i, p. 180, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 405, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.
Townsend, Can. Ent., xxiv, p. 193, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
Gillette and Baker, Hemip. Colo., p. 17, 1895.
Van Duzee, Can. Ent., xliv, p. 319, 1912.

Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 15, 1913.
Localities: Quebec(?), Va., Ga., La., Colo., N. Mex., Utah, Idaho, Texas, Ariz., Calif.

Genus **Margus** Dall.
Logotype *pectoralis* Dall.

Dallas, List of Hemip., ii, p. 523, 1852.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 549, 1867.
Stål, Hemip. Fabr., i, pp. 57, 58, 1868.
Stål, Enum. Hemip., i, p. 184, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 136, 1881.
Bergroth, Ann. Soc. Ent. Belg., lvi, p. 88, 1912.
Althos Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Margus*).
Banks, Cat. Neare. Hemip., p. 75, 1910.

289. **Margus inconspicuus** (H. S.)
Herrich-Schaeffer, Wanz. Ins., vi, p. 14, fig. 570, 1842, *Syromastes*.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Hemip. Fabr., i, p. 58, 1868.
Stål, Enum. Hemip., i, p. 184, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 405, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Distant, Biol. Centr. Am., Heter., i, p. 137, 1881.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Localities: Colo., N. Mex., Texas., Ariz., Calif. (Mexico.)

290. **Margus obscurator** (Fabr.)
Fabricius, Syst. Rhyng., p. 200, 1803, *Coreus*.
Stål, Hemip. Fabr., i, pp. 57, 58, 1868.
Stål, Enum. Hemip., i, p. 185, 1870.
Berg, Hemip. Argent., p. 81, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 137, 1881.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 424, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909, *Althos*.
impudens Stål, Rio Jan. Hemip., i, p. 37, 1860.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
†*inornatus* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.
Localities: Fla. (Neotropical.)

Genus **Namacus** Am. & Serv.
Haplotype *transvirgatus* A. & S.

Amyot and Serville, Hémip., p. 242, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867.
Stål, Enum. Hemip., i, p. 186, 1870. [*prominulus* Stål.)
Dirnalus Stål, Of. Vet. Akad. Forh., xvi, p. 454, 1859. (Haplotype

291. **Namacus annulicornis** Stål
Stål, Enum. Hemip., i, p. 186, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 137, pl. 14, fig. 8, 1881.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 520, 1914.
Localities: Fla. (Mexico.)

Genus **Scolopocerus** Uhl.
Haplotype *secundarius* Uhl.

Uhler, Wheeler's Surv. 100th Mer., v, p. 832, 1875.
Distant, Biol. Centr. Am., Heter., i, p. 164, 1881.
Van Duzee, Can. Ent., xli, p. 372, 1909.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 167, 1914. (Key.)

292. **Scolopocerus secundarius** Uhl.

Uhler, Wheeler's Surv. 100th Mer., v, p. 833, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Barber, Brookl. Inst. Sci. Bul., i, p. 268, 1906.
Localities: Colo., Texas, Ariz. (Mexico.)

293. **Scolopocerus granulosus** Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 166, 1914.
Locality: Texas.

294. **Scolopocerus uhleri** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 164, pl. 16, fig. 6, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 269, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Localities: Ariz., N. Mex.

Genus **Catorhintha** Stål
Logotype *guttula* Fabr.

Stål, Of. Vet. Akad. Forh., xvi, p. 470, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 549, 1867.
Stål, Enum. Hemip., i, p. 187, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 138, 1881.

295. **Catorhintha guttula** (Fabr.)

Fabricius, Ent. Syst., iv, p. 162, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 228, 1803, *Lygaeus.*
Stål, Of. Vet. Akad. Forh., xvi, p. 471, 1859.
Stål, Hemip. Fabr., i, p. 58, 1868.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
Gillette and Baker, Hemip. Colo., p. 18, 1895.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 424, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 12, 1907; ix, p. 160, 1909.
dorsiger (Westwood), Hope Cat., ii, p. 25, 1842, *Gonocerus.*
Dallas, List of Hemip., ii, p. 504, 1852, *Anasa.*
Guerin, Sagra, Hist. de Cuba, Ins., p. 380, 1857, *Coreus.*
†*sclector* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.
Localities: Fla., Okl., Texas, N. Mex., Colo., Ariz. (Neotropical.)

296. **Catorhintha mendica** Stål

Stål, Enum. Hemip., i, p. 187, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 405, 1877.
Wheeler's Rept. Chief Eng., for 1877, p. 1324.
Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 13, fig. 21, 1881.
Gillette and Baker, Hemip. Colo., p. 18, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Localities: Dak., Colo., Okl., Texas, Ariz. (Mexico.)

297. **Catorhintha selector** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 471, 1859.
Stål, Enum. Hemip., i, p. 188, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 13, fig. 19, 1881.
Localities: Texas, N. Mex., Ariz. (Mexico.)

298. **Catorhintha texana** Stål

Stål, Enum. Hemip., i, p. 188, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
Barber, Brookl. Inst. Sci. Bul., i, p. 267, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Localities: Okl., N. Mex., Texas, Ariz.

Genus **Ficana** Stål
Haplotype *apicalis* (Dall.)

Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
Stål, Enum. Hemip., i, p. 188, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 138, 1881.

299. **Ficana apicalis** (Dall.)

Dallas, List of Hemip., ii, p. 499, 1852, *Gonocerus*.
Stål, Stet. Ent. Zeit., xxiii, p. 303, 1862.
Stål, Enum. Hemip., i, p. 188, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 138, pl. 14, fig. 1, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.
?Gillette and Baker, Hemip. Colo., p. 18, 1895.
Localities: Colo.(?), Ariz., Calif. (Mexico.)

Genus **Cimolus** Stål
Haplotype *vitticeps* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 302, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
Stål, Enum. Hemip., i, p. 188, 1870.
Distant, Biol. Centr. Am., Heter, i, p. 139, 1881.

300. **Cimolus obscurus** Stål

Stål, Enum. Hemip., i, p. 189, 1870.
Localities: S. C., Texas.

Genus **Anasa** Am. & Serv.

Haplotype *cornuta* Am. & Serv.

Amyot and Serville, Hémip., p. 209, 1843.
Dallas, List of Hemip., ii, p. 504, 1852.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 238, 251, 1853.
Stål, Stet. Ent. Zeit., xxiii, p. 299, 1862.
Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
Stål, Hemip. Fabr., i, p. 57, 1868.
Stål, Enum. Hemip., i, p. 189, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 139, 1881. [*tristis* De Geer.

¶*Oriterus* Hahn, Wanz. Ins., i, p. 8, 1831. (Used for *destructor* Hahn =
Stål, Hemip. Fabr., v, p. 57, 1868.
Stål, Enum. Hemip., i, p. 189, 1870 (subgen. of *Anasa*).

†*Acanthocerus* Stål, Enum. Hemip., i, p. 192, 1870 (in part).

301. **Anasa tristis** (De Geer)

De Geer, Mémoires, iii, p. 340, pl. 34, fig. 20, 1773, *Cimex*.
Goeze, Ent. Beytr., ii, p. 269, 1778, *Cimex*.
Dallas, List of Hemip., ii, p. 499, 1852, *Gonocerus*.
Stål, Hemip. Fabr., i, p. 56, 1868.
Stål, Enum. Hemip., i, p. 189, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 292, 1876; iii, p. 406, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Uhler, Proc. Bost. Soc. Nat. Hist, xix, p. 385, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 139, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 53, 1885.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Gillette and Baker, Hemip. Colo., p. 18, 1895.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.

moestus (Gmelin), *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2168,
Tigny, Hist. des Ins., Edn. 2, iv, p. 275, 1813, *Cimex*. [1788, *Cimex*.

rugator (Fabricius), Syst. Rhyng., p. 192, 1803, *Coreus*.
Burmeister, Handb. d'Ent., ii, p. 311, 1835, *Gonocerus*.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 104, 1853, *Homoeocerus*.

ordinatus (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 318, 1825; Compl. Writ., [ii, p. 244, *Coreus*.

destructor (Hahn), Wanz. Ins., i, p. 8, fig. 2, 1831, *Oriterus*.

Localities: Quebec, Ont., Mass., Conn., N. Y., N. J., Pa., Md., Fla., N. C., Ala., Ohio, Ill., Mich., Colo., Okl., N. Mex., Texas, Ariz., Calif. (Mexico.)

302. **Anasa uhleri** Stål

Stål, Hemip. Fabr., i, p. 57, 1868.
Stål, Enum. Hemip., i, p. 190, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 141, pl. 13, fig. 23, 1881.
Uhler, Check List, p. 11, 1886.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 234, 1894.

Localities: "West States" (Uhler). (Mexico.)

303. **Anasa andrewsi** (Guerin).

Guerin *in* Sagra, Hist. de Cuba, Ins., p. 383, pl. 13, fig. 9, 1857, *Coreus.*
Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 186, 1865.
Stål, Hemip. Fabr., i, p. 57, 1868.
Stål, Enum. Hemip., i, p. 190, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 141, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 268, 1906.
lugens Stål, Stet. Ent. Zeit., xxiii, p. 301, 1862.
Localities: Fla., La., Texas, N. Mex. (Neotropical.)

304. **Anasa repetita** Heid.

Heidemann, Proc. Ent. Soc. Wash., vii, p. 11, 1905.
Localities: N. Y., D. C., Md.

305. **Anasa obliquua** (Uhl.)

Uhler, Proc. Am. Ent. Soc., i, p. 23, 1861, *Gonocerus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.
Localities: Calif.

306. **Anasa scorbutica** (Fabr.)

Fabricius, Syst. Ent., p. 706, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 239, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 349, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 286, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2141, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 129, 1794, *Coreus.*
Fabricius, Syst. Rhyng., p. 185, 1803, *Coreus.*
Stål, Hemip. Fabr., i, pp. 56, 57, 1868.
Stål, Enum. Hemip., i, p. 192, 1870.
Walker, Cat. Heter., iv, p. 108, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.
Berg, Hemip. Argent., p. 82, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 142, 1881.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 179.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894.
nebulosa (Palisot–Beauvois), Ins. Rec. Afr. Am., p. 205, pl. Hémip. 12, fig.
moesta Dallas, List of Hemip., ii, p. 505, 1852. [6, 1805, *Acanthocerus.*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 380, 1857, *Coreus.*
spiniceps Stål, Stet. Ent. Zeit., xxiii, p. 300, 1862.
Localities: Fla., Okl., Texas. (West Indies, Mexico.)

307. **Anasa armigera** (Say)

Say, Jl. Acad., Nat. Sci. Phila., iv, p. 319, 1825; Compl. Writ., ii, p. 244,
Stål, Hemip. Fabr., i, p. 57, 1868. [*Coreus.*
Stål, Enum. Hemip., i, p. 192, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876.
Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 146, 1910.
terminalis Dallas, List of Hemip., ii, p. 506, 1852.
Localities: N. J., Pa., Md. Va., N. C., S. C., Ga., Fla., Ohio, Kan., Okl., Texas.

Genus **Zicca** Am. & Serv.

Haplotype *nassulata* A. & S. = *nigropunctata* De Geer

Amyot and Serville, Hémip., p. 240, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 547, 1867.
Stål, Enum. Hemip., i, p. 198, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 146, 1881.

308. **Zicca taeniola** (Dall.)

Dallas, List of Hemip., ii, p. 514, 1852, *Clavigralla.*
Stål, Stet. Ent. Zeit., xxiii, p. 299, 1862.
Stål, Enum. Hemip., i, p. 199, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 147, pl. 14, fig. 13, 1881.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 12, 1907. [*Gonocerus.*
?obsoletus (Herrich–Schaeffer), Wanz. Ins., vi, p. 10, fig. 567, 1842,
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 119, 1866, *Cletus.*
Stål, Enum. Hemip., iii, p. 78, 1873, *Cletus.*
delicatus (Guerin), *in* Sagra, Hist. de Cuba, Ins., p. 384, 1857, *Coreus.*
[*Taeniola* is probably identical with *obsoletus,* in which case it must fall as synonym.]
Localities: "N. Am." (H. S.). (Neotropical.)

Genus **Hypselonotus** Hahn

Logotype *interruptus* Hahn

Hahn, Wanz. Ins., i, p. 186, 1831.
Burmeister, Handb. d. Ent., ii, p. 319, 1835.
Brullé, Hist. des Ins., ix, p. 370, 1835.
Spinola, Essai sur les Hémip., p. 200, 1837 (1840).
Blanchard, Hist. des Ins., Hemip., p. 126, 1840.
Amyot and Serville, Hémip., p. 241, 1843.
Spinola, Tavola Sinot., p. 40, 1850.
Dallas, List of Hemip., ii, p. 464, 1851.
Herrich–Schaeffer, Wanz. Ins., ix, pp. 243, 268, 1853.
Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
Stål, Enum. Hemip., i, p. 201, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 150, 1881.
Horvath, Ann. Mus. Natl. Hung., xi, p. 365, 1913. (Key.)

309. **Hypselonotus punctiventris** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 297, 1862.
Stål, Enum. Hemip., i, p. 201, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 150, pl. 14, fig. 23, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 268, 1906.
Horvath, Ann. Mus. Natl. Hung., xi, pp. 366, 369, 1913.
Localities: Texas. (Mexico.)

310. **Hypselonotus fulvus** (De Geer)

De Geer, Mémoirs, iii, p. 341, pl. 34, fig. 22, 1773, *Cimex.*
Goeze, Ent. Beytr., ii, p. 269, 1778, *Cimex.*
Dallas, List of Hemip., ii, p. 464, 1852.
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 100, 1866.
Stål, Enum. Hemip., i, p. 201, 1870.

Berg, Hemip. Argent., p. 86, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 151, 1881.
Banks, Cat. Neare. Hemip., p. 77, 1910.
Horvath, Ann. Mus. Natl. Hung., xi, pp. 366, 369, 1913.

a. var. **venosus** (Fabr.)
Fabricius, Ent. Syst., iv, p. 142, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 213, 1803, *Lygaeus.*
Brullé, Hist. des Ins., ix, p. 371, 1835.
Stål, Hemip. Fabr., i, p. 56, 1868.
Localities: Texas(?) (Banks). (Neotropical.)

Genus **Paryphes** Burm.
Logotype *laetus* (Fabr.)

Burmeister, Handb. d. Ent., ii, p. 335, 1835.
Blanchard, Hist. des Ins., Hémip., p. 123, 1840.
Amyot and Serville, Hémip., p. 202, 1843.
Dallas, List of Hemip., ii, pp. 438, 439, 1852.
Stål, Of. Vet. Akad. Forh., xxiv, p. 548, 1867.
Stål, Enum. Hemip., i, p. 204, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 154, 1881. [*laetus* type.)
Horvath, Ann. Mus. Natl. Hung., xi, p. 344, 1913. (Monograph; names

311. **Paryphes rufoscutellatus** (Gray)

Gray, Griffith's Anim. Kingd., xv, p. 241, pl. 97, fig. 1, 1832, *Nematopus.*
Stål, Enum. Hemip., i, p. 205, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 154, 1881.
Banks, Cat. Neare. Hemip., p. 77, 1910.
Localities: "Calif."(?) (Banks). (Mexico.)

Subfamily ALYDINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xxxiv, 221, 1843, *Alydides.*
Dallas, List of Hemip., ii, p. 467, 1852, Fam. *Alydidae.*
Stål, Of. Vet. Akad. Forh., xxiv, pp. 535, 542, 1867, Subfam. *Alydida.*
Stål, Enum. Hemip., i, p. 209, 1870, Subfam. *Alydina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 50, 53, 1872, Subfam. *Alydina.*
Stål, Enum. Hemip., iii, pp. 34, 84, 1873, Subfam. *Alydina.*
Distant, Biol. Centr. Am., Heter., i, p. 156, 1881.
Uhler, Check List, p. 12, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 105, 1894, Subfam. *Alydidae.*
Distant, Fauna Br. Ind., Rhyng., i, p. 407, 1902.
Oshanin, Kat. Palae. Hemip., p. 23, 1912.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912, *Alydidae.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 15, 1913.

TRIBE *MICRELYTRINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867, *Micrelytrida.*
Stål, Enum. Hemip., i, p. 215, 1870, Div. *Micrelytrina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 53, 1872, Div. *Micrelytraria.*
Stål, Enum. Hemip., iii, p. 84, Div. *Micrelytraria.*
Distant, Biol. Centr. Am., Heter., i, p. 158, 1881, Div. *Micrelytraria.*
Distant, Fauna Br. Ind., Rhyn., i, p. 407, 1902, Div. *Micrelytraria.*

Oshanin, Kat. Palae. Hemip., p. 24, 1912, Tribe *Micrelytraria.*
Bergroth, Mem. Soc. Ent. Belg., xxii, p. 158, 1913, Div. *Micrelytraria.*

Genus **Protenor** Hagl.
Haplotype *belfragei* Hagl.

Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867 (invalid here).
Haglund, Stet. Ent. Zeit., xxix, p. 162, 1868 (validated by describing
Stål, Enum. Hemip., i, p. 217, 1870. [*belfragei.*)
Distant, Biol. Centr. Am., Heter., i, p. 160, 1881.
Tetrarhinus Prov., Nat. Can., iv, p. 75, 1872. (Haplotype *quebecensis* Prov.)

312. **Protenor belfragei** Hagl.

Haglund, Stet. Ent. Zeit., xxix, p. 162, 1868.
Stål, Enum. Hemip., i, p. 217, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 295, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
Van Duzee, Can. Ent., xliv, p. 319, 1910.
quebecensis (Provancher), Nat. Can., iv, p. 76, 1872, *Tetrarhinus.*
Provancher, Pet. Faune Ent. Can., iii, p. 57, 1885, *Tetrarhinus.*
Localities: Quebec, Ont., N. Y., N. J., Md., Ill., Mich., Wisc., Colo., Texas.

Genus **Darmistus** Stål
Haplotype *subvittatus* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 469, 1859; xxiv, p. 543, 1867.
Stål, Enum. Hemip., i, p. 217, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 160, 1881.

313. **Darmistus subvittatus** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 469, 1859.
Stål, Enum. Hemip., i, p. 217, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 160, pl. 15, fig. 10, 1881.
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
Localities: Colo., Texas, Calif.

Genus **Cydamus** Stål
Haplotype *adspersipes* Stål

Stål, Rio Jan. Hemip., i, p. 33, 1860.
Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.
Stål, Enum. Hemip., iii, p. 88, 1873.
Distant, Biol. Centr. Am., Heter., i, p. 159, 1881.

314. **Cydamus borealis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 159, pl. 15, fig. 11, 1881.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 151, 1906.
Localities: Texas. (Guatemala.)

Genus **Esperanza** Barb.
Haplotype *texana* Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 269, 1906.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 158, 1913. (Subgen. of *Cydamus*.)

315. **Esperanza texana** Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 270, 1906.
Locality: Texas.

TRIBE *LEPTOCORISIINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Leptocorisaria*.
Stål, Enum. Hemip., iii, p. 85, 1873, Div. *Leptocorisaria*.
Distant, Biol. Centr. Am., Heter., i, p. 161, 1881, Div. *Leptocorisaria*.
Uhler, Check List, p. 12, 1886. [*corisidae*.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 102, 1894, Subfam. *Lepto-*
Distant, Fauna Br. Ind., Rhyn., i, p. 409, 1902, Div. *Leptocorisaria*.
Oshanin, Kat. Palae. Hemip., p. 24, 1912, Tribe *Leptocorisaria*.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913, Div. *Leptocorixaria*.
†*Gerrida* Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867.
Stål, Enum. Hemip., i, p. 217, 1870, *Gerrina*.
†*Myodochinae* Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xiv, p. 306, 1902.

Genus **Leptocorisa** Latr.
Orthotype *varicornis* (Fabr.)

Latreille *in* Cuvier, Règn. Anim., Edn. 2, v, p. 197, 1829 (n.n. for *Gerris* Fabr.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836. [of 1803.)
Laporte, Essai Classif. Syst. Hémip., p. 25, 1832. (Names *linearis* type.)
Spinola, Essai sur les Hémip., p. 194, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 125, 1840.
Amyot and Serville, Hémip., p. 228, 1843.
Spinola, Tavola Sinot., p. 42, 1850.
Dallas, List of Hemip., ii, p. 482, 1851.
Dohrn, Cat. Hemip., p. 29, 1859.
Fieber, Europ. Hemip., pp. 58, 224, 1861.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 112, 1868.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.
Stål, Enum. Hemip., iii, pp. 86, 87, 1873.
Distant, Biol. Centr. Am., Heter., i, p. 161, 1881.
Uhler, Check List, p. 13, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 102, 1894.
Distant, Fauna Br. Ind., Rhyng., i, p. 409, 1902 (cites *tipuloides* as type).
Oshanin, Verz. Palae. Hemip., i, p. 212, 1906.
Oshanin, Kat. Palae. Hemip., p. 24, 1912.
†*Gerris* Fabricius, Syst. Rhyng., p. 260, 1803 (not of 1794). (Type *vari-*
Stål, Hemip. Afr., ii, p. 87, 1865. [*cornis* Fabr.)
Stål, Of. Vet. Akad. Forh., xxiv, p. 543, 1867.
Stål, Hemip. Fabr., i, p. 66, 1868.
Stål, Enum. Hemip., i, p. 217, 1870.
†*Myodocha* Latreille, Genera Crust. Ins., iii, p. 126, 1807 (n.n., invalid here).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 496, 1816 (for *tipuloides* and
Kirkaldy, Jl. Bomb. Nat. Hist. Soc., xiv, p. 306, 1902. [*trispinosa*).
Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.

†*Myodochus* Leach., Brewster's Edinbg. Encyc., ix, p. , 1815.
Leach, Brewster's Edinbg. Encyc., Am. Edn., viii, p. 711, 1832 (for
Burmeister, Handb. d. Ent., ii, p. 325, 1835. [*tipuloides* De Geer).
Herrich-Schaeffer, Wanz. Ins., viii, p. 94, 1848.
Leptocorise Latreille, Fam. Nat. du Règne Anim., p. 421, 1825 (not Latin).
¶*Leptocorixa* Berthold, Nat. Fam. des Tierrichs, p. 418, 1827.
Kirkaldy, Entomol., xli, p. 123, 1908.
Bergroth, Ent. Mitteil., ii, p. 12, 1913.
Reuter, Ann. Soc. Ent. Belg., lvii, p. 78, 1913.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913. [*Myodochus* Burm.).
Stenocoris Burmeister, Handb. d. Ent., ii, pt. 2, p. 1010, 1838 (n.n. for
Herrich-Schaeffer, Wanz. Ins., ix, pp. 244, 275, 1853.
Stål, Enum. Hemip., iii, p. 87, 1873. (Subgen. of *Leptocorisa.*)
†*Leptocoris* Westwood, Intr. Mod. Classif. Ins., ii, p. 483, 1840.
Rhabdocoris Kolenati Melet. Ent., ii, p. 67, 1845.
Stål, Enum. Hemip., iii, p. 86, 1873. (Subgen. of *Leptocorisa.*)
Erbula Stål, Enum. Hemip., iii, p. 86, 1873. (Subgen. of *Leptocorisa.*)

316. **Leptocorisa tipuloides** (De Geer)

De Geer, Mémoires, iii, p. 354, pl. 35, fig. 18, 1773, *Cimex.*
Goeze, Ent. Beytr., ii, p. 273, 1778, *Cimex.*
Retzius, Gen. et Spec. Ins., p. 89, 1783, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., Edn. 13, i, pt. 4, p. 2194, 1788, *Cimex.*
Latreille, Gen. Crust. Ins., iii, p. 126, 1807, *Myodocha.*
Olivier, Encyc. Meth., viii, p. 106, 1811, *Myodochus.*
Lamarck, Hist. Nat. Crust. Ins., iii, p. 497, 1816, *Myodocha.*
Laporte, Essai Classif. Syst. Hémip., p. 33, 1832, *Myodocha.*
Burmeister, Handb. d. Ent., ii, p. 325, 1835, *Myodochus.*
Brullé, Hist. Nat. des Ins., ix, p. 389, 1835.
Amyot and Serville, Hémip., p. 229, 1843.
Dallas, List of Hemip., ii, p. 484, 1851.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 113, 1866.
Stål, Enum. Hemip., i, p. 218, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 162, 1881.
Distant, Proc. Zool. Soc. Lond. for 1901, pt. 1, p. 331.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
crudelis Westwood, Hope Cat., ii, p. 18, 1842.
Localities: Fla., Texas. (Neotropical.)

TRIBE *ALYDINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867, *Alydida.*
Stål, Hemip. Fabr., i, p. 62, 1868, *Alydida.*
Stål, Enum. Hemip., i, p. 209, 1870, Div. *Alydina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Alydaria.*
Stål, Enum. Hemip., iii, pp. 85, 89, 1873, Div. *Alydaria.*
Distant, Biol. Centr. Am., Heter., i, p. 156, 1881, Div. *Alydaria.*
Uhler, Check List, p. 12, 1886, *Alydina* (part).
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 105, 1894, *Alydidae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 412, 1902, Div. *Alydaria.*
Oshanin, Verz. Palae., Hemip., i, p. 213, 1906, Div. *Alydaria.*

Oshanin, Kat. Palae., Hemip., p. 24, 1912, Tribe *Alydaria.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 159, 1913, Div. *Alydaria.*

Genus **Hyalymenus** Am. & Serv.
Logotype *dentatus* (Fabr.)

Amyot and Serville, Hémip., p. 223, 1843.
Dallas, List of Hemip., ii, p. 467, 1852.
Herrich-Schaeffer, Wanz. Ins., ix, p. 243, 1853; Verz., p. 105, 1853.
Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.
Stål, Enum. Hemip., i, p. 210, 1870; iii, p. 90, 1873.
Distant, Biol. Centr. Am., Heter., i, p. 156, 1881. [Fabr.)
Tivarbus Stål, Of. Vet. Akad. Forh., xvi, p. 459, 1859. (Logotype *sinuatus*
Galeottus Distant, Biol. Centr. Am., Heter., i, p. 459, 1893 (founded on a [nymph.)

317. **Hyalymenus tarsatus** (Fabr.)

Fabricius, Syst. Rhyng., p. 250, 1803, *Alydus.*
Stål, Of. Vet. Akad. Forh., xvi, p. 460, 1859, *Tivarbus.*
Stål, Hemip. Fabr., i, p. 62, 1868.
Stål, Enum. Hemip., i, p. 212, 1870.
Walker, Cat. Heter., iv, p. 162, 1871, *Camptopus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 156, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 270, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
atratus (Fabricius), Syst. Rhyng., p. 251, 1803, *Alydus.*
diversipes (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus.*
Dallas, List of Hemip., ii, p. 477, 1851, *Alydus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894, *Tivarbus.*
affinis (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus.*
Dallas, List of Hemip., ii, p. 477, 1851, *Alydus.*
obscurus (Westwood), Hope Cat., ii, p. 19, 1842, *Alydus.*
sinuatus (Herrich-Schaeffer), Wanz. Ins., viii, p. 98, fig. 865, 1846, *Alydus.*
recurvatus (Herrich-Schaeffer), Wanz. Ins., viii, p. 98, fig. 866, 1846,
pallens (Dallas), List of Hemip., ii, p. 476, 1852, *Alydus.* [*Alydus.*
pectoralis (Stål), Rio Jan. Hemip., i, p. 34, 1860, *Camptopus.*
formicarius (Distant), Biol. Centr. Am., Heter., i, p. 459, pl. 39, fig. 23, [1893, *Galeottus.*

Localities: Texas, Ariz., Calif. (Neotropical.)

318. **Hyalymenus longispinus** Stål

Stål, Enum. Hemip., i, p. 213, 1870 (n.n. for *sinuatus* Guer.).
Banks, Cat. Nearc. Heter., p. 74, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914.
†*sinuatus* (Guerin), Sagra Hist. de Cuba, Ins., p. 390, 1857, *Alydus.*
Localities: Fla. (West Indies.)

319. **Hyalymenus pulcher** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 235, 1854, *Alydus.*
Stål, Enum. Hemip., i, p. 211, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 156, pl. 15, fig. 8, 1881.
Banks, Cat. Heter., p. 74, 1910.
Localities: "Texas"(?) (Banks). (Neotropical.)

Genus **Megalotomus** Fieb.
Logotype *limbatus* H. S. = *junceus* Scop.

Fieber, Europ. Hemip., pp. 58, 226, 1861.
Stål, Enum. Hemip., i, p. 214, 1870 (subgen. of *Alydus*.)
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.
Stål, Enum. Hemip., iii, pp. 90, 92, 1873.
Puton, Cat. Hémip. Palae., Edn. 3, p. 18, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 106, 1894.
Oshanin, Verz. Palae., Hemip., i, p. 217, 1906.
Oshanin, Kat. Palae., Hemip., p. 24, 1912. (Names *junceus* type.)
Huphus Mulsant and Rey, Punaise de Fr., iii, p. 158, 1870. (Rye says [Aug., 1871, Zoolog. Record, 1871, p. 418.)

320. **Megalotomus 5-spinosus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 323, 1824; Compl. Writ., ii, p. 247,
Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861, *Alydus*. [*Lygaeus*.
Stål, Enum. Hemip., i, p. 214, 1870.
Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875, *Alydus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 283, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 56, 1885, *Alydus*.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893, *Alydus*.
Van Duzee, Can. Ent., xl, p. 110, 1908.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910, *Alydus*.
cruentus (Herrich-Schaeffer), Wanz. Ins., viii, p. 100, fig. 868, 1848,
Dallas, List of Hemip., ii, p. 477, 1852, *Alydus*. [*Alydus*.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Fla., Ill., Wis., Colo., Utah, Calif., Wash., Vanc. Isd.

Genus **Burtinus** Stål
Haplotype *notatipennis* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 458, 459, 1859.
Stål, Enum. Hemip., i, p. 214, 1870 (as subgen. of *Alydus*).

321. **Burtinus notatipennis** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 459, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 305, 1862.
Stål, Enum. Hemip., i, p. 214, 1870, *Alydus*.
Walker, Cat. Heter., iv, p. 160, 1871, *Alydus*.
Distant, Biol. Centr. Am., Heter., i, p. 373, 1893, *Alydus*.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914, *Alydus*.
femoralis (Distant), Biol. Centr. Am., Heter., i, p. 158, pl. 15, fig. 9, 1881,
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 235, 1894. [*Alydus*.
Localities: Texas. (Neotropical.)

Genus **Alydus** Fabr.
Orthotype *calcaratus* Linn.

Fabricius, Syst. Rhyng., p. 248, 1803.
Le Peletier and Serville, Encyc. Méth., x, p. 61, 1825.
Latreille, *in* Cuvier, Regne Anim., Edn. 2, v, p. 197, 1829.
Schilling, Beit., i, p. 49, 1829.

Fallén, Hemip. Suec., Cimic., p. 39, 1829.
Curtis, Br. Ent., viii, pl. 369, 1831.
Hahn, Wanz. Ins., i, p. 197, 1831.
Laporte, Essai Classif. Syst. Hémip., p. 27, 1832.
Herrich-Schaeffer, Nom. Ent., pp. 35, 43, 1835.
Burmeister, Handb. d. Ent., ii, p. 323, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. Edn., iv, p. 163, 1836.
Spinola, Essai sur les Hémip., p. 207, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 125, 1840.
Westwood, Intro. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
Amyot and Serville, Hémip., p. 225, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 96, 1848.
Spinola, Tavola Sinot., p. 40, 1850.
Dallas, List of Hemip., ii, pp. 470, 477, 1852.
Stål, Of. Vet. Akad. Forh., xvi, p. 458, 1859.
Flor, Rhyng. Livl., i, p. 181, 1860.
Fieber, Europ. Hemip., pp. 58, 225, 1861.
Stål, Hemip. Afr., ii, p. 7, 1865.
Stål, Of. Vet. Akad. Forh., xxiv, p. 542, 1867.
Stål, Enum. Hemip., i, p. 213, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872.
Stål, Enum. Hemip., iii, p. 90, 1873.
Distant, Biol. Centr. Am., Heter., i, p. 157, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911. (Key.)
Alyde Latreille, Fam. Nat. Règ. Anim., p. 421, 1825. (French form.)

322. **Alydus pluto** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 401, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876; iii, p. 406, 1877.
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
Localities: Kan., Colo., Utah., N. Mex., Texas, La., Calif., Wash., Idaho, Vanc. Isd.

323. **Alydus eurinus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 324, 1824; Compl. Writ., ii, p. 247,
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 40, 1872. [*Lygaeus.*
Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 293, 1876; iii, p. 406, 1877; iv, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878. [504, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 157, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 55, 1885.
Van Duzee, Can. Ent., xxi, p. 2, 1889.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
ater Dallas, List of Hemip., ii, p. 478, 1852.
Stål, Enum. Hemip., i, p. 213, 1870.
†*calcaratus* Uhler, Proc. Ent. Soc. Phila., i, p. 23, 1861.
†*pluto* Provancher, Pet. Faune Ent. Can., iii, p. 56, 1885.

†*vicarius* (Provancher), Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus.*
§*urinus* Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Ohio, Mo., Neb., Kan., Dak., Colo., Utah, Texas, Calif.

324. **Alydus conspersus** Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 49, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Mich., Ia., Dak., Colo.

325. **Alydus scutellatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxix, p. 108, 1903.
Cockerell, Univ. Colo. Studies, vii, p. 127, 1910.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
Localities: Colo., N. Mex., Mont., Br. Col.

326. **Alydus rufescens** Barb.

Barb., Jl. N. Y. Ent. Soc., xix, pp. 29, 30, 1911.
Locality: Ariz.

327. **Alydus pilosulus** H. S.

Herrich-Schaeffer, Wanz. Ins., viii, p. 101, fig. 870, 1848.
Dallas, List of Hemip., ii, p. 478, 1852.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878.
Montandon, Proc. U. S. Natl. Mus., xvi, p. 50, 1893.
Bueno and Brimley, Ent. News, xviii, p. 440, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 521, 1914.
[*vittinosus* Harris], Cat. Ins. Mass., 1833.
†*eurinus* Stål, Enum. Hemip., i, p. 213, 1870.
Localities: Mass., N. Y., N. J., Pa., Del., Md., N. C., Fla., Ill., Kans., Okl., Texas, Calif.

Genus **Tollius** Stål
Haplotype *curtulus* Stål

Stål, Enum. Hemip., i, p. 213, 1870; iii, p. 89, 1873. (Subgenus of *Alydus.*)

328. **Tollius curtulus** (Stål)

Stål, Freg. Eug. Resa, Ins., p. 234, 1859, *Alydus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Gillette and Baker, Hemip. Colo., p. 18, 1895.
Barber, Jl. N. Y. Ent. Soc., xix, p. 31, 1911.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
Localities: N. Y., Colo., Utah, Calif.

329. **Tollius setosus** (Van D.)

Van Duzee, Ent. News, xvii, p. 386, 1906, *Alydus*.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Barber, Jl. N. Y. Ent. Soc., xix, p. 30, 1911, *Alydus*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
Localities: Mont., Utah, Ariz., Calif.

Genus **Stachyocnemus** Stål
Haplotype *apicalis* Dall.

Stål, Enum. Hemip., i, p. 215, 1870; iii, p. 91, 1873.

330. **Stachyocnemus apicalis** (Dall.)

Dallas, List of Hemip., ii, p. 479, 1852, *Alydus*.
Stål, Enum. Hemip., i, p. 215, 1870.
Uhler, Hayden's Surv. Terr. for 1871, p. 402, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 294, 1876.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
Localities: N. J., Fla., Texas, Dak., Calif.

Subfamily PSEUDOPHLOEINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxiv, p. 535, 1867, *Pseudophloeida*.
Stål, Enum. Hemip., i, p. 219, 1870, *Pseudophloeina*.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 50, 52, 1872, *Pseudophloeina*.
Stål, Enum. Hemip., iii, pp. 34, 81, 1873, *Pseudophloeina*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876, *Pseudophloeina*.
Distant, Biol. Centr. Am., Heter., i, p. 164, 1881, *Pseudophloeinae*.
Puton, Cat. Hémip. Palae., Edn. 3, p. 17, 1886, Div. *Pseudophloearia*.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 91, 1894 (Subfam.), [*Pseudophloeidae*.
Distant, Fauna Br. Ind., Rhyng., i, p. 401, 1902, *Pseudophloeinae*.
Oshanin, Verz. Palae., Hemip., i, p. 197, 1906, *Pseudophlocina*.
Banks, Cat. Neare. Hemip., p. 73, 1910, *Pseudophloeini*.
Oshanin, Kat. Palae. Hemip., p. 22, 1912, *Pseudophlocinae*.
Arenocorinae Bergroth, Mém. Soc. Ent. Belg., xxii, p. 155, 1913.

Genus **Ceraleptus** Costa
Logotype *gracilicornis* H. S.

Costa, Cimic. Reg. Neap., Cent., ii, p. 11, 1847.
Dallas, List of Hemip., ii, p. 523, 1852.
Fieber, Europ. Hemip., pp. 57, 219, 1861.
Stål, Enum. Hemip., i, p. 219, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 53, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 165, 1881.

331. **Ceraleptus pacificus** Barber

Barber, Jl. N. Y. Ent. Soc., xxii, p. 167, 1914.
Localities: Calif., Ore., Wash., Vanc. Isd.

332. **Ceraleptus americanus** Stål

Stål, Enum. Hemip., i, p. 219, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876.

Distant, Biol. Centr. Am., Heter., i, p. 165, 1881.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 520, 1914.
Localities: Fla., Utah, Texas, Ariz., Calif. (Mexico.)

Genus **Coriomeris** Westw.
Logotype *denticulatus* Scop.

Westwood, Hope Cat., ii, p. 6, 1842 (n.n. for *Coreus* Burm. and *Merocoris* Hahn).
Kirkaldy, Entomol., xxxiii, p. 240, 1900. (Names *denticulatus* type.)
Kirkaldy, Entomol. xxxvi, p. 216, 1903.
Oshanin, Kat. Palae. Hemip., p. 23, 1912. (Names *hirticornis* Fabr. type.)
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 157, 1913. [Oshanin).
Van Duzee, Check List Hemip., p. 14, 1916 (type *scabricornis* Panz., after
†*Coreus* Laporte, Essai Classif. Syst. Hémip., p. 43, 1832 (for *hirticornis*
Burmeister, Handb. d. Ent., ii, p. 309, 1835. [Fabr.)
Amyot and Serville, Hémip., p. 237, 1843.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 238, 255, 1853 (part).
Flor, Rhyng. Livl., i, p. 174, 1860.
Fieber, Europ. Hemip., pp. 57, 220, 1861.
Walker, Cat. Heter., v, p. 7, 1872.
Puton, Cat. Hémip. Palae., Edn. 3, p. 17, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 95, 1894.
Oshanin, Verz. Palae. Hemip., i, p. 203, 1906. [*dentator* Fabr.)
‖*Merocoris* Hahn, Wanz. Ins., ii, p. 105, 1834 (for *denticulata* Scop. and
Blanchard, Hist. des Ins., Hémip., p. 118, 1840. (Div. of *Coreus*.)
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
Dasycoris Dallas, List of Hemip., ii, p. 519, 1852 (n.n. for *Merocoris* Hahn.)
Dohrn, Cat. Hemip., p. 31, 1859.
Stål, Enum. Hemip., i, p. 219, 1870.
Uhler, Check List, p. 13, 1886.
Banks, Cat. Nearc. Hemip., p. 73, 1910.

333. **Coriomeris humilis** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872, *Dasycoris*.
Uhler, Wheeler's Surv. 100th Merid., v, p. 834, 1875, *Dasycoris*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 407, 1877, *Dasycoris*.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Dasycoris*.
Gillette and Baker, Hemip. Colo., p. 19, 1895, *Dasycoris*.
†*pilicornis* (Uhler), Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872,
Banks, Cat. Nearc. Hemip., p. 73, 1910, *Dasycoris*. [*Dasycoris*.
Localities: Kan., Colo., Texas, Ariz., Calif., Vanc. Isd.

334. **Coriomeris nigricornis** (Stål)

Stål, Enum. Hemip., i, p. 219, 1870, *Dasycoris*.
Distant, Biol. Centr. Am., Heter., i, p. 164, pl. 15, fig. 12, 1881, *Dasycoris*.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894, *Dasycoris*.
Gillette and Baker, Hemip. Colo., p. 19, 1895, *Dasycoris*.
Banks, Cat. Nearc. Hemip., p. 73, 1910, *Dasycoris*.
Localities: Colo. (Mexico.)

Subfamily CORIZINAE (Mayr)

Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 121, 1866, *Corizida*.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 50, 1872, *Corizina*.

Stål, Enum. Hemip., iii, pp. 34, 97, 1873, *Corizina.*
Distant, Biol. Centr. Am., Heter., i, p. 165, 1881, *Corizinae.*
Puton, Cat. Hémip. Palae., p. 18, 1886, Tribe *Corizini.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 114, 1894, *Corizidae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 416, 1902.
Oshanin, Verz. Palae. Hemip., i, p. 218, 1906, *Corizina.*
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, pp. 49, 59, 1912, Fam.
Oshanin, Cat. Palae. Hemip., p. 25, 1912, *Corizina.* [*Corizidae.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914, *Corizidae.*
Rhopalides Amyot and Serville, Hémip., pp. xxxvi, 243, 1843.
Dallas, List of Hemip., ii, p. 520, 1852, Fam. *Rhopalidae* (in part).
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862, *Rhopalida.*
Stål, Hemip. Afr., ii, pp. 1, 111, 1865, *Rhopalida.*
Stål, Enum. Hemip., i, p. 219, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876.
Uhler, Check List, p. 13, 1886.
Banks, Cat. Neare. Hemip., p. 71, 1910, *Rhopalini.*

TRIBE *HARMOSTINI* (Stål)

Stål, Enum. Hemip., iii, p. 97, 1873, Div. *Harmostaria.*
Distant, Biol. Centr. Am., Heter., i, p. 166, 1881, Div. *Harmostaria.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913, Div. *Harmostaria.*

Genus **Harmostes** Burm.
Haplotype *dorsalis* Burm.

Burmeister, Handb. d. Ent., ii, p. 307, 1835.
Dallas, List of Hemip., ii, p. 520, 1852.
Herrich-Schaeffer, Wanz. Ins., ix., p. 270, 1853: Verz., p. 101, 1853.
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
Stål, Enum. Hemip., i, p. 219, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 166, 1881.

335. **Harmostes serratus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 75, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 123, 1803, *Syrtis.*
Stål, Hemip. Fabr., i, p. 67, 1868.
Stål, Enum. Hemip., i, p. 220, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 166, pl. 15, fig. 13, 1881.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.
Uhler, Proc. Zool. Soc. Lond., for 1894, p. 180.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
gravidator (Fabricius), Ent. Syst., iv, p. 133, 1794, *Coreus.*
Fabricius, Syst. Rhyng., p. 199, 1803, *Coreus.*
perpunctatus Dallas, List of Hemip., ii, p. 521, 1852.
Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.
Localities: Texas, Fla.

336. **Harmostes reflexulus** (Say)

Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p. [323, *Syromastes.*
Stål, Enum. Hemip., i, p. 220, 1870.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877; iv, p. [505, 1878.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Gillette and Baker, Hemip. Colo., p. 20, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 160, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
virescens Dallas, List of Hemip., ii, p. 520, 1852.
Gillette and Baker, Hemip. Colo., p. 20, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, pp. 151, 178, 1906.
costalis, Herrich-Schaeffer, Wanz. Ins., ix, p. 270, fig. 992, 1853.
bruesi Bergroth, Ent. News, xxiv, p. 266, 1913.
Localities: Me., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ga., Fla., Ind., Ill., Wisc., Minn., Dak., Neb., Kan., Colo., Utah, Texas, Ariz., Calif., Idaho.

337. **Harmostes subrufus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 167, pl. 15, fig. 16, 1881.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
Localities: Ariz. (Guatemala.)

338. **Harmostes(?) obliquus** (Say)

Say, Heter. N. Harm., p. 11, 1832; Fitch reprint, p. 769; Compl. Writ., i, p. [324, *Syromastes*.
Locality: "U. S."

339. **Harmostes fraterculus** (Say)

Say, Heter. N. Harm., p. 10, 1832; Fitch reprint, p. 768; Compl. Writ., i, p. [324, *Syromastes*.
Stål, Enum. Hemip., i, p. 221, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 168, pl. 15, fig. 18, 1881.
Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
Localities: N. J., Md., Va., Ga., Ind., Ill., Okl., Texas, Ariz., Calif. (Neotropical.)

340. **Harmostes affinis** Dall.

Dallas, List of Hemip., ii, p. 522, 1852.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914.
Localities: Fla., Texas. (Mexico.)

Genus **Aufeius** Stål
Haplotype *impressicollis* Stål

Stål, Enum. Hemip., i, p. 221, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 168, 1881.

341. **Aufeius impressicollis** Stål

Stål, Enum. Hemip., i, p. 222, 1870.
Uhler, Hayden's Survey Terr., Rept. for 1871, p. 403, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.
?Distant, Biol. Centr. Am., Heter., i, p. 169, pl. 15, fig. 20, 1881.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
propinquus Distant, Biol. Centr. Am., Heter., i, p. 168, pl. 15, fig. 19, 1881.
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.
Localities: Dak., Kan., Colo., Texas, Calif., Ariz. (Mexico.)

Genus **Xenogenus** Berg
Haplotype *picturatum* Berg

Berg, Hemip. Argent., Add., p. 45, 1884.
Distant, Biol. Centr. Am., Heter., i, p. 461, 1893.

342. **Xenogenus extensum** Dist.

Distant, Biol. Cent. Am., Heter., i, p. 461, pl. 39, fig. 26, 1893.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
Localities: Ariz. (Mexico.)

TRIBE *CORIZINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 54, 1872, Div. *Corizaria.*
Stål, Enum. Hemip., iii, p. 97, 1873, Div. *Corizaria.*
Distant, Biol. Centr. Am., Heter., i, p. 169, 1881.
Distant, Fauna Br. Ind., Rhyng., i, p. 416, 1902, Div. *Coryzaria.*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 162, 1913, Div. *Coryzaria.*

Genus **Corizus** Fall.
Logotype *hyoscyami* (Linn.)

Fallén, Spec. Nova Hemip. Disp., p. 8, 1814.
Fallén, Hemip. Suec., Cimic., p. 40, 1829.
Burmeister, Handb. d. Ent., ii, pp. 302, 306, 1835.
Brullé, Hist. des Ins., ix, p. 358, 1835. (Names *hyoscyami* type.)
Herrich-Schaeffer, Nomen. Ent., pp. 35, 42, 1835.
Spinola, Essai sur les Hémip., p. 224, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 116, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840.
Herrich-Schaeffer, Wanz. Ins., vi, p. 1, 1842.
Gorski, Anal. Ent., i, p. 157, 1852.
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 75, 1859.
Flor, Rhyng. Livl., i, p. 187, 1860.
Fieber, Europ. Hemip., pp. 60, 234, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
Stål, Hemip. Afr., ii, pp. 111, 114, 1865.
Mayr, Reise Freg. Novara, Zool., ii, p. 121, 1866.
Stål, Enum. Hemip., i, p. 222, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872.
Berg, Hemip. Argent., p. 93, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 169, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 59, 1885, *Corisus.*
Hambleton, Ann. Ent. Soc. Am., i, p. 133, 1908.
Baker, Can. Ent., xl, p. 241, 1908. [type.)
Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *subrufus* Gmel. pseudo-

[*Kleidocerys* Stephens, MS], Syst. Cat. Brit. Ins., p. 342, 1829 (part).
Rhopalus Schilling, Ent. Beit., p. 50, 1829.
Westwood, Intr. Mod. Classif, Ins., ii, Synop., p. 123, 1840. (Names [*capitatus* Wolff. type.)
Amyot and Serville, Hémip., p. 245, 1843 (for *capitatus* Fabr.)
Dallas, List of Hemip., ii, p. 525, 1852.
Walker, Cat. Heter., v, p. 18, 1872.

Subgenus **Liorhyssus** Stål
Logotype *hyalinus* (Fabr.)

Stål, Enum. Hemip., i, p. 222, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872.
Stål, Enum. Hemip., iii, pp. 97, 98, 1873.
Oshanin, Verz. Palae. Hemip., i, p. 220, 1906.
Baker, Can. Ent., xl, p. 243, 1908.
Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *hyalinus* type.)
Colobatus Mulsant and Rey, Punaise de Fr., iii, p. 137, 1870.

343. **Corizus hyalinus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 168, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 201, 1803, *Coreus.*
Stål, Hemip. Fabr., i, p. 68, 1868.
Stål, Of. Vet. Akad. Forh., xxvii, p. 659, 1870.
Stål, Enum. Hemip., i, p. 222, 1870, *Liorhyssus;* iii, p. 98, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 300, 1876; iii, p. 407, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Distant, Biol. Cent. Am., Heter., i, p. 169, pl. 16, fig. 7, 1882.
Reuter, Rev. Synon., p. 171, 1888, *Rhopalus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 369, 1893.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 180.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 236, 1894.
Gillette and Baker, Hemip. Colo., p. 20, 1895.
Uhler, Proc. U. S. Nat. Mus., xxvii, p. 352, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 220, 1906, *Liorhyssus.*
Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 146, 1907, *Rhopalus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
Hambleton, Ann. Ent. Soc. Am., i, p. 136, 1908.
Baker, Can. Ent., xl, p. 243, 1908, *Liorhyssus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
gracilis Herrich-Schaeffer, *in* Panzer, Fauna Germ, –, p. 127, 1835.
Herrich-Schaeffer, Nomen. Ent., pp. 42, 75, 1835.
Herrich-Schaeffer, Wanz. Ins., vi, p. 1, pl. 181, fig. C, 1842.
Gorski, Anal. Ent., i, p. 163, 1852.
Dallas, List of Hemip., ii, p. 528, 1852, *Rhopalus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 88, 1859.
Mulsant and Rey, Punaise de Fr., iii, p. 137, 1870, *Colobatus.*
truncatus Rambaur, Fauna Andal., ii, p. 144, 1842.
Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus.*
Stål, Hemip. Afr., ii, p. 117, 1865.
variegatus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 89, 1859.
spathula Rey, Échange, iii, No. 36, p. 2, 1887.

a. var. **sanguineus** (Costa)
Costa, Cimic. Régne Neap., iii, p. 14, pl. 6, fig. 8, 1852, *Rhopalus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 104, 1859.
Dohrn, Stet. Ent. Zeit., xxi, p. 107, pl. 1, fig. 7, 1860.
Mulsant and Rey, Punaise de Fr., iii, p. 140, 1870.
siculus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 91, 1859.
victoris Mulsant and Rey, Punaise de Fr., iii, p. 123, 1870, *Rhopalus.*

b. var. **nigrinus** Puton
Puton, Synop. Heter. Fr., ii, p. 117, 1881.

c. var. **marginatus** Jakl.
Jakowlef, Horae. Soc. Ent. Ross., vi, p. 10, 1871.

d. var. **dilatipennis** Sign.
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 89, 1859.

e. var. **rubricatus** Reut.
Reuter, Of. Finska Vet. Soc. Forh., xlii, p. 276, 1900, *Liorhyssus.*
[The varieties have not been worked out in America.]
Localities: Fla., Miss., Ohio, Iowa, Dak., Neb., Colo., Utah, Texas, N. Mex., Ariz., Calif. (Europe, Asia, Africa, America.)

344. **Corizus viridicatus** Uhler

Uhler, Hayden's Surv. Terr., Report for 1871, p. 404, 1872.
Horvath, Ann. Mus. Natl. Hung., vi, p. 556, 1908.
Hambleton, Ann. Ent. Soc. Am., i, p. 138, 1908.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.
†*hyalinus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 407, 1877 (as variety).
Localities: D. C., Dak., Neb., Colo., Utah, Wyom., N. Mex., Calif.

Subgenus **Stictopleurus** Stål
Logotype *crassicornis* (Linn.)

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872 (as genus).
Stål, Enum. Hemip., iii, p. 98, 1873 (as genus).
Reuter, Berl. Ent. Zeit., xxix, p. 42, 1885.
Puton, Cat. Hémip. Palae., Edn. 3, p. 18, 1886.
Oshanin, Verz. Palae. Hemip., i, p. 226, 1906 (as genus).
Oshanin, Kat. Palae. Hemip., p. 25, 1912. (Names *crassicornis* type).
†*Corizus* Baker, Can. Ent., xl, p. 242, 1908.

345. **Corizus crassicornis** (Linn.)

Linnaeus, Syst. Nat., Edn. 10, i, p. 448, 1758, *Cimex.*
Linnaeus, Fauna Suec., Rev. Edn., p. 254, No. 952, 1761, *Cimex.*
Linnaeus, Syst. Nat., Edn. 12, ii, p. 729, 1767, *Cimex.*
Fabricius, Syst. Ent., p. 723, 1775, *Cimex.*
Goeze, Ent. Beitr., ii, p. 217, 1778, *Cimex.*
Wolff, Icon. Cimic., iv, p. 146, fig. 140, 1804, *Lygaeus.*
Panzer, Fauna Germ., pt. 92, fig. 18, 1805, *Coreus.*
Herrich-Schaeffer, Nomen. Ent., p. 42, 1835.
Burmeister, Handb. d. Ent., ii, p. 306, 1835.
Hahn, Wanz. Ins., iii, p. 2, fig. 227, 1835, *Rhopalus.*
Spinola, Essai sur les Hémip, p. 249, 1837, *Rhopalus.*
Blanchard, Hist. des Ins., Hémip., p. 117, 1840.

Dallas, List of Hemip., ii, p. 527, 1852, *Rhopalus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 79, 1859.
Flor, Rhyng. Livl., i, p. 190, 1860.
Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus.*
Stål, Of. Vet. Akad. Forh., xix, p. 208, 1862, subgen. *Rhopalus.*
Douglas and Scott, Brit. Hemip., p. 131, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 55, 1872, *Stictopleurus.*
Walker, Cat. Heter., v, p. 19, 1872, *Rhopalus.*
Reuter, Rev. Synon., p. 170, 1888, *Rhopalus.*
Rey, Revue d'Ent., vii, p. 96, 1888.
Oshanin, Verz. Palae. Hemip., i, p. 226, 1906, *Stictopleurus.*
Van Duzee, Can. Ent., xl, p. 110, 1908.
Horvath, Ann. Mus. Natl. Hung., vi, p. 556, 1908.
Hambleton, Ann. Ent. Soc. Am., i, p. 137, 1908.

alatus (Muller) Zool. Danic. Prod., p. 106, 1776, *Cimex.*
punctato-nervosus (Goeze), Ent. Beytr., ii, p. 265, 1778, *Cimex.*
sabulosus (Fourcroy), Ent. Paris., i, p. 202, 1785, *Cimex.*
Geoffroy, Hist. Abr. des Ins., i, p. 448, 1762 (without name).
†*magnicornis* (Fallén), Monog. Cimic., p. 59, 1807, *Coreus.*
cellulatus Brullé, Exp. de Moreé, iii, p. 72, 1832.
panzeri Dufour, Mém. Acad. Sci., iv, p. 166, 1833 (n.n. for *crassicornis*
punctiventris (Dallas), List of Hemip., ii, p. 526, 1852, *Rhopalus.* [Panz.)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iv, p. 505, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 60, 1885.
Van Duzee, Can. Ent., xxi, p. 2, 1889.
Uhler, Proc. Ent. Soc. Wash., ii, p. 370, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Gillette and Baker, Hemip. Colo., p. 21, 1895.
Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
novoeboracensis Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 97, 1859.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1904.
Baker, Can. Ent., xl, p. 242, 1908.
borealis Uhler, Proc. Acad. Nat. Sci. Phila., xii, p. 284, 1862.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.

a. var. **maculatus** (Fieb.)
Fieber, Europ. Hemip., p. 234, 1861, *Rhopalus.*
Rey, Revue d'Ent., vii, p. 97, 1888.

b. var. **pictus** Horv.
Horvath, Schn. Beitr. z. Kennt. d. Caue. Länd., p. 76, 1879.

c. var. **maculicollis** Rey.
Rey, Revue d'Ent., vii, p. 97, 1888.

d. var. **umbrinus** Rey
Rey, Revue d'Ent., vii, p. 98, 1888.

e. var. **griseus** (Fieb.)
Fieber, Europ. Hemip., p. 233, 1861, *Rhopalus.*
Rey, Revue d'Ent., vii, p. 98, 1888.

f. var. **pallidus** Baker.
Baker, Can. Ent., xl, p. 243, 1908.

g. var. **intermedia** Baker.
Baker, Can. Ent., xl, p. 243, 1908.

h. var. **occidentalis** Baker.
Baker, Can. Ent., xl, p. 243, 1908.

i. var. **plutonius** Baker.
Baker, Can. Ent., xl, p. 243, 1908.
Localities: Quebec, N. H., Ont., N. Y., N. J., Pa., Ohio, Dak., Neb., Wyo., Colo., Utah, Mont., Texas, Ariz., Calif., Oregon, Br. Am. (Mexico, Palaearctic.)

Subgenus **Niesthrea** Spin.
Haplotype *sidae* (Fabr.)

Spinola, Essai sur les Hémip., p. 245, 1837 (1840).
Stål, Enum. Hemip., i, p. 223, 1870.
Baker, Can. Ent., xl, p. 243, 1908.

346. **Corizus sidae** (Fabr.)

Fabricius, Ent. Syst., iv, p. 169, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 201, 1803, *Coreus.*
Wolff, Icon. Cimic., v, p. 193, fig. 187, 1811, *Coreus.*
Spinola, Essai sur les Hémip., p. 245, 1837 (1840).
Dallas, List of Hemip., ii, p. 527, 1852, *Rhopalus.*
Guerin, Sagra, Hist. de Cuba, Ins., p. 385, 1857.
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 95, 1859.
Stål, Hemip. Fabr., i, p. 69, 1868.
Stål, Enum. Hemip., i, p. 223, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 181.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Horvath, Ann. Mus. Natl. Hung., vi, p. 557, 1908, *Corizus.*
Hambleton, Ann. Ent. Soc. Am., i, p. 142, 1908.
Baker, Can. Ent., xl, p. 243, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 132, 1911 (egg).
Bergroth, Mém. Soc. Ent. Belg., p. 163, 1913.
anticus (Signoret), Ann. Soc. Ent. Fr., Ser. 3, vii, p. 99, 1859, *Corizus.*

a. var. **pictipes** (Stål)
Stål, Freg. Eugenes Resa, Ins., p. 239, 1859, *Rhopalus.*
Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.
Stål, Enum. Hemip., i, p. 223, 1870.
Berg, Hemip. Argent., p. 93, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 171, pl. 15, fig. 24, 1882.
Barber, Brookl. Inst. Sci. Bul., i, p. 271, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
Baker, Can. Ent., xl, p. 244, 1908.
ventralis Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 92, 1859.
mexicanus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 95, 1859.
proximus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 96, 1859.
nebulosus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 98, 1859.
luteolus Distant, Biol. Centr. Am., Heter., i, pl. 15, fig. 25, 1881.
Localities: Md., Ga., Fla., Texas, Kan., Okl., Ariz. (Neotropical.)

Subgenus **Arhyssus** Stål
Logotype *bohemani* Sign.

Stål, Enum. Hemip., i, p. 223, 1870.
Baker, Can. Ent., xl, p. 244, 1908.

347. **Corizus validus** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 370, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Gillette and Baker, Hemip. Colo., p. 21, 1895.
Hambleton, Ann. Ent. Soc. Am., i, p. 141, 1908.
Localities: Wyom., Utah, Colo., Ariz., Calif.

348. **Corizus lateralis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 320, 1825; Compl. Writ., ii, p. 245, [*Coreus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 97, 1859.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 404, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p. 407, 1877; iv, p. [505, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 170, pl. 16, fig. 9, 1882.
Uhler, Proc. Ent. Soc. Wash., ii, p. 369, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Gillette and Baker, Hemip. Colo., p. 20, 1895.
Hambleton, Ann. Ent. Soc. Am., i, p. 140, 1908.
Baker, Can. Ent., xl, p. 244, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
Hambleton, Ann. Ent. Soc. Am., ii, p. 272, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910.
punctipennis (Dallas), List of Hemip., ii, p. 526, 1852, *Rhopalus.*
nigristernum Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 100, 1859.

a. var. **roseus** Baker.
Baker, Can. Ent., xl, p. 244, 1908.
Localities: N. H., Mass., N. Y., N. J., Pa., D. C., Fla., Kan., Ill., Mo., Colo., Texas, Ariz. (Mexico.)

349. **Corizus bohemanii** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 86, 1859.
Hambleton, Ann. Ent. Soc. Am., i, p. 143, 1908.
Baker, Can. Ent., xl, p. 244, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.
†*punctiventris* Stål, Enum. Hemip., i, p. 223, 1870.
Baker, Can. Ent., xl, p. 244, 1908.
†*nigristernum* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p. [408, 1877.
Van Duzee, Can. Ent., xxi, p. 2, 1889.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Gillette and Baker, Hemip. Colo., p. 21, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 27, 1910.
†*lateralis* Provancher, Pet. Faune Ent. Can., iii, p. 60, 1885.
Localities: Quebec, Ont., N. H., N. Y., Pa., N. J., Md., D. C., Va., N. C., Fla., Texas, Ariz., Calif.

350. **Corizus scutatus** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 239, 1859, *Rhopalus.*
Stål, Enum. Hemip., i, p. 224, 1870.
Hambleton, Ann. Ent. Soc. Am., i, p. 139, 1908.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 231, 1916.
jactatus Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 81, 1859.
Localities: Wyom., Utah, Calif., Ore.

351. **Corizus punctatus** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 81, 1859.
Distant, Biol. Centr. Am., Heter., i, p. 170, pl. 16, fig. 8, 1882.
Hambleton, Ann. Ent. Soc. Am., i, p. 144, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 161, 1909.
Localities: Fla., Texas, Ariz. (Neotropical.)

352. **Corizus indentatus** Hambl.

Hambleton, Ann. Ent. Soc. Am., i, p. 139, 1908.
Localities: Colo., Wyo., Calif., Wash., Ore.

353. **Corizus tuberculatus** Hambl.

Hambleton, Ann. Ent. Soc. Am., i, p. 140, 1908.
Locality: Wash.

354. **Corizus parvicornis** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vii, p. 101, 1859.
Hambleton, Ann. Ent. Soc. Am., i, p. 143, 1908.
Localities: Texas, Calif. (Mexico.)

355. **Corizus hirtus** Bueno

Bueno, Ent. News, xxiii, p. 217, 1912.
Locality: N. Y.

TRIBE *LEPTOCORINI* Van D.

Van Duzee, Can. Ent., xlvi, p. 379, 1914.
Serinetharia Stål, Enum. Hemip., iii, p. 97, 1873 (as division).
Berg, Hemip. Argent., p. 95, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 172, 1882 (as division).
Distant, Fauna Br. Ind., Rhyn., i, p. 418, 1902.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 164, 1913 (as division).

Genus **Leptocoris** Hahn
Haplotype *rufus* Hahn = *abdominalis* Fabr.

Hahn, Wanz. Ins., i, p. 200, 1831.
Burmeister, Handb. d. Ent., ii, p. 305, 1835.
Stål, Enum. Hemip., i, p. 226, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 172, 1882.
Uhler, Check List, p. 13, 1886.
Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 350.
Serinetha Spinola, Essai sur les Hemip., p. 247, 1837 (1840) (n.n. for Spinola, Tavola Sinot., p. 37, 1850. [*Leptocoris* Hahn.)
Dallas, List of Hemip., ii, p. 459, 1852.
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.

Stål, Hemip. Afr., ii, p. 112, 1865.
Stål, Enum. Hemip., iii, pp. 98, 99, 1873.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 122, 1894.
Distant, Fauna Br. Ind., Rhyn., i, p. 418, 1902. (Names *abdominalis*
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 164, 1913. [Fabr. type.)
Lygeomorphus Blanchard, Hist. des Ins., Hémip., p. 116, 1840 (n.n. for [*Leptocoris* Hahn.)
Pyrrhotes Westwood, Hope Cat., ii, p. 6, 1842 (n.n. for *Leptocoris* Hahn.)
Tynotoma Amyot and Serville, Hémip., p. 220, 1843. (Haplotype *vittata* [Am. & Serv.)
Boisea Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 123, 1910 (as subgen. of [*Leptocoris* Hahn; Orthotype *vittata*.)

356. **Leptocoris trivittatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 322, 1825; Compl. Writ., ii, p. 246,
Stål, Enum. Hemip., i, p. 226, 1870. [*Lygaeus.*
Uhler, Hayden's Surv. Terr. for 1871, p. 404, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 301, 1876; iii, p. 408, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.
Distant, Biol. Centr. Am. Heter., i, p. 172, 1882.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Gillette and Baker, Hemip. Colo., p. 21, 1895.
?vittata Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 123, 1910.
Localities: Mo., Kan., Colo., Utah, Ariz., Calif.

Genus **Jadera** Stål
Logotype *coturnix* Burm. = *sanguinolenta* Fabr.

Stål, Rio Jan. Hemip., ii, p. 59, 1862.
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862.
Stål, Enum. Hemip., i, p. 226, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 172, 1882.
†*Pyrrhotes* Bergroth, Wien. Ent. Zeit., xxv, p. 9, 1906.
Banks, Cat. Neare. Hemip., p. 73, 1910.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 165, 1913.

357. **Jadera haematoloma** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 103, fig. 873, 1848, *Leptocoris.*
Dallas, List of Hemip., ii, p. 463, 1852, *Serinetha.*
Guerin, Sagra, Hist de Cuba, Ins., p. 393, 1857, *Lygaeus.*
Stål, Stet. Ent. Zeit., xxiii, p. 307, 1862.
Stål, Enum. Hemip., i, p. 226, 1870.
Uhler, Hayden's Surv. Terr., for 1871, p. 404, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 173, pl. 17, fig. 5, 1882.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 237, 1894.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 540, 1901.
Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 518, 1914. (*Pyrrhotes.*)
marginalis (Walker), Cat. Heter., v, p. 45, 1872, *Lygaeus.*
Localities: Fla., Kan., Colo., Texas, Ariz., Calif.

358. **Jadera sanguinolenta** (Fabr.)

Fabricius, Syst. Ent., p. 721, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 365, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 300, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 158, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 224, 1803, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 67, 1868, *Serinetha.*
Stål, Enum. Hemip., i, p. 227, 1870.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 429, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907.
cruentus (Fabricius), Mantissa Ins., ii, p. 301, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 159, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 225, 1803.
coturnix (Burmeister), Handb. d. Ent., ii, p. 305, 1835, *Leptocoris.*
Dallas, List of Hemip., ii, p. 462, 1852, *Serinetha.*
Guerin, Sagra, Hist. de Cuba, Ins., p. 392, 1857, *Lygaeus.*
Stål, Rio Jan. Hemip., ii, p. 59, 1862 (misspelled *Cothurnix*).
Stål, Stet. Ent. Zeit., xxiii, p. 306, 1862 (misspelled *Cothurnix*).
bicolor (Westwood), Hope Cat., ii, p. 26, 1842, *Pyrrhotes.*
cinerea (Amyot and Serville), Hémip., p. 244, 1843, *Therapha.*
anticus (Walker), Cat. Heter., v, p. 46, 1872, *Lygaeus* (examples e-n only).
rufoculis (Kirby), Jl. Linn. Soc. Zool., xx, p. 546, 1890 *Lygaeus.*
Localities: Fla. (Neotropical.)

359. **Jadera aeola** (Dall.)

Dallas, List of Hemip., ii, p. 463, 1852, *Serinetha.*
Stål, Enum. Hemip., i, p. 227, 1870.
Distant, Biol. Cent. Am., Heter., i, p. 173, pl. 15, fig. 22, 1882.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 429, 1901.
Barber, Brookl. Inst. Sci. Bul., i, p. 272, 1906.
conspersus (Walker), Cat. Heter., v, p. 47, 1872, *Lygaeus.*
Localities: Texas. (Neotropical.)

SERIES *PHLOEOBIOTICA* Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 49, 1912.
Oshanin, Kat. Palae. Hemip., p. 46, 1912.

Family ARADIDAE (Spin.)

Spinola, Essai sur les Hémip., p. 157, 1837 (1840), *Aradites.*
Costa, Cimic. Neap., Cent., ii, p. 15, 1843, *Aradini.*
Herrich-Schaeffer, Wanz. Ins., viii, p. 111, 1844, *Aradites.*
Spinola, Tavola Sinot., p. 44, 1850, *Aradoideae.*
Fieber, Genera Hydroc., p. 9, 1851, *Aradoidea.*
Flor, Rhyn. Livl., i, p. 375, 1860, *Aradoidea.*
Fieber, Europ. Hemip., pp. 24, 34, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 437, 1862, *Aradida.*
Stål, Hemip. Afr., iii, p. 30, 1865, *Aradida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 671, 1870, *Aradina.*

Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 48, 1872.
Stål, Enum. Hemip., iii, p. 135, 1873, *Aradidae.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
Berg, Hemip. Argent., p. 138, 1879.
Uhler, Stand. Nat. Hist., ii, p. 283, 1884.
Uhler, Check List, p. 22, 1886.
Puton, Cat. Hémip. Palae., Edn. 3, p. 34, 1886, *Aradides.*
Provancher, Pet. Faune Ent. Can., iii, p. 163, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1902.
Oshanin, Verz. Palae. Hemip., i, p. 463, 1908.
Kirkaldy, Can. Ent., xl, p. 360, 1908.
Banks, Cat. Nearc. Hemip., p. 52, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 15, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 49, 1912, [*Aradoidea* (as superfamily).
Oshanin, Kat. Palae. Hemip., p. 46, 1912, *Aradoidcae* (as superfamily).

Corticicoles, Amyot and Serville, Hemip., p. xli, 1843.
Herrich-Schaeffer, Wanz. Ins., ix, p. 139, 1853, *Corticicolae.*
Dohrn, Cat. Hemip., p. 43, 1859, *Corticicolae.*
Stål, Rio Jan. Hemip., i, p. 66, 1860, *Corticicolae.*
Douglas and Scott, Br. Hemip., pp. 25, 267, 1865, *Corticicolina.*
Walker, Cat. Heter., vii, p. 6, 1873, *Corticicolae.*

Subfamily **ARADINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xli, 306, 1843, *Aradides.*
Stål, Hemip. Afr., iii, p. 30, 1865, *Aradina.*
Douglas and Scott, Br. Hemip., pp. 26, 269, 1865, *Aradidae* (as family).
Stål, Of. Vet. Akad. Forh., xxvii, p. 672, 1870, *Aradina.*
Reuter, Of. Vet. Akad. Forh., xxix, p. 48, 1872, *Aradina.*
Stål, Enum. Hemip., iii, p. 135, 1873, *Aradida.*
Walker, Cat. Heter., vii, pp. 6, 7, 1873, *Aradidae.*
Berg, Hemip. Argent., p. 138, 1879, *Aradina.*
Uhler, Stand. Nat. Hist., ii, p. 283, 1884, *Aradina.*
Uhler, Check List, p. 22, 1886, *Aradina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 31, 1896, *Aradidae* (sub-
Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898, *Aradinae.* [family.)
Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1903, *Aradinae.*
Oshanin, Verz. Palae. Hemip., i, p. 463, 1908, *Aradina.*
Banks, Cat. Nearc. Hemip., p. 52, 1910, *Aradina.* [*Aradidae* (as family).
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 32, 57, 1912,
Oshanin, Kat. Palae. Hemip., p. 46, 1912, *Aradidae* (as family).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914, *Aradidae* (as family).

Genus **Aradus** Fabr.
Orthotype *betulae* (Linn.)

Fabricius, Syst. Rhyng., p. 116, 1803 (names *betulae* type).
Latreille, Hist. Nat. Crust. Ins., xii, p. 246, 1804.
Latreille, Genera Crust. Ins., iii, p. 140, 1807.
Fallén, Monog. Cimic. Suec., p. 31, 1807.
Latreille, Consid. Génl., pp. 258, 433, 1810. (Cites *betulae* as type.)

Wolff, Icon. Cimic., v, p. vii, 1811.
Latreille, Fam. Règ. Anim., p. 423, 1825, *Arade.*
Le Peletier and Serville, Encyc. Méth., x, pp. 653, 654, 1825.
Fallén, Hemip. Suec., Cimic., p. 134, 1829.
Latreille, Cuvier, Règne Anim., Edn. 2, v, p. 201, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 53, 1832. (Names *annulicornis*
Herrich-Schaeffer, Nomen. Ent., pp. 37, 59, 1835. [pseudotype.)
Burmeister, Handb. d. Ent., ii, p. 255, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 333, 1835.
Latreille, Cuvier, Anim. King., Lond. Edn., iv, p. 165, 1836.
Spinola, Essai sur les Hémip., p. 159, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 111, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
Amyot and Serville, Hémip., p. 307, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Flor, Rhyn. Livl., i, p. 377, 1860.
Fieber, Europ. Hemip., pp. 34, 110, 1861.
Stål, Hemip. Afr., iii, pp. 30, 37, 1865.
Douglas and Scott, Br. Hemip., p. 269, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 48, 1872.
Stål, Enum. Hemip., iii, p. 135, 1873.
Walker, Cat. Heter., vii, pp. 7, 30, 1873.
Berg, Hemip. Argent., p. 138, 1879.
Provancher, Pet. Faune Ent. Can., iii, p. 164, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 65, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 153, 1903. (Names *versicolor* H. S.
Osborn, Ohio Nat., iv, p. 36, 1903. [pseudotype.)
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 301, 1907.

Subgenus **Aradus** Fabr.

Stål, Enum. Hemip., iii, p. 135, 1873. (Section a.)

360. **Aradus aequalis** Say

Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 797; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 136, 1873. [352.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.
Osborn, Ohio Nat., iv, p. 36, 1903.
Bergroth, Can. Ent., xlv, p. 1, 1913.
duryi Osborn, Ohio Nat., iv, p. 39, 1903.
Localities: "Canada," Ohio, Ind., Ill., Okl., Texas.

361. **Aradus quadrilineatus** Say

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 326, 1825; Compl. Writ., ii, p. 249.
Stål, Enum. Hemip., iii, p. 137, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist, xix, p. 418, 1878.
Bergroth, Revue d'Ent., vi, p. 247, 1887 (note).
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.
Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
†*robustus* Provancher, Pet. Faune Ent. Can., iii, p. 165, 1887.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Mo.

362. **Aradus robustus** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.
Stål, Enum. Hemip., iii, p. 136, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 419, 1878.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Revue d'Ent., vi, p. 247, 1887 (note).
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.
Osborn, Ohio Nat., iv, p. 37, 1903.
Van Duzee, Can. Ent., xliv, p. 323, 1912.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.
†*aequalis* Provancher, Pet. Faune Ent. Can., iii, p. 165, 1887.
Localities: Quebec, Ont., Mass., Conn., N. Y., N. J., Md., Del., N. C., Ohio, Ill., Minn., Ia., Kan., Okl., Wis.

363. **Aradus fuscomaculatus** Stål

Stål, Freg. Eugen. Resa, Ins., p. 260, 1859.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876.
fusco-annulatus Stål, Enum. Hemip., iii, p. 136, 1873.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Localities: Calif., Vanc. Isd.

364. **Aradus duzeei** Bergr.

Bergroth, Proc. Ent. Soc. Wash., ii, pp. 333, 335, 1892.
Osborn, Ohio Nat., iv, p. 38, 1903.
‡*vanduzeei* Heidemann, Proc. Ent. Soc. Wash., xii, p. 47, 1910.
Localities: Quebec, Ont., N. Y., Pa., Colo., Calif.

365. **Aradus ornatus** Say

Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 797; Compl. Writ., i, p.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886. [352.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 332, 335, 1892.
Osborn, Ohio Nat., iv, pp. 22, 38, 1903.
Localities: Pa., Ohio, Ind.

366. **Aradus coarctatus** Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 69, 1907.
Localities: Calif., Br. Col.

367. **Aradus behrensi** Bergr.

Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Proc. Ent. Soc., Wash., ii, p. 335, 1892.
Bergroth, Can. Ent., xxxviii, p. 198, 1906.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.
Localities: Calif., Ore.

368. **Aradus curticollis** Bergr.

Bergroth, Can. Ent., xlv, p. 2, 1913.
Locality: N. C.

368½. **Aradus persimilis** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 232, 1916.
Locality: Calif.

369. **Aradus hubbardi** Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 232, 1904.
Bergroth, Can. Ent., xxxviii, p. 198, 1906.
Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 232, 1916.
Localities: Colo., N. Mex., Ariz., Calif., Vanc. Isd., Br. Col., "Pt. Sidney."

370. **Aradus cincticornis** Bergr.

Bergroth, Can. Ent., xxxviii, p. 198, 1906.
Bergroth, Can Ent., xlv, p. 3, 1913.
Locality: Ala.

371. **Aradus similis** Say

Say, Het. N. Harm., p. 28, 1832; Fitch reprint, p. 796; Compl. Writ., i, p. 351.
Stål, Enum. Hemip., iii, p. 136, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878.
Bergroth, Revue d'Ent., vi, p. 247, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, pp. 332, 335, 338, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.
Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 26, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: Me., N. Y., N. J., Pa., Md., D. C., N. C., S. C., Fla., Ala., Ill., Texas, Alaska(?).

a. var. **centriguttatus** Bergr.

Bergroth, Revue d'Ent., vi, p. 246, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, pp. 332, 335, 1892.
Locality: Fla.

373. **Aradus debilis** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 322, 1876.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 231, 1916.
Localities: Colo., Idaho, Calif., Vanc. Isd., Br. Col.

374. **Aradus montanus** Bergr.

Bergroth, Can. Ent., xlv, p. 1, 1913.
Locality: Colo.

375. **Aradus acutus** Say

Say, Heter. N. Harm., p. 28, 1832; Fitch reprint, p. 795; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 136, 1873. [351.
Uhler, Wheeler's Surv. 100th Merid., v, p. 839, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.

Sherman, Ent. News, xvi, p. 8, 1905.
Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
americanus Herrich-Schaeffer, Wanz. Ins., viii, p. 115, fig. 889, 1848.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.
Gillette and Baker, Hemip. Colo., p. 58, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.
Localities: N. J., Pa., D. C., N. C., S. C., Ga., Fla., Ala., Ind., Colo., Texas, Calif.

376. **Aradus borealis** Heid.

Heidemann, Proc. Ent. Soc. Wash., xi, p. 190, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.
Localities: N. H., Mich., Calif.

377. **Aradus shermani** Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 68, 1907.
Localities: Pa., N. C.

378. **Aradus inornatus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
Localities: N. J., Pa., Md., N. C., S. C., Ga., Ill., Wis., Neb., Br. Col.

379. **Aradus crenatus** Say.

Say, Heter. N. Harm., p. 28, 1832; Fitch reprint, p. 795; Compl. Writ., i, p. [350.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.
Uhler, Stand. Nat. Hist., ii, p. 383, 1884.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Bergroth, Wien. Ent. Zeit., xiv, p. 168, 1895.
Osborn, Ohio Nat., iv, p. 37, 1903.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.
Sherman, Ent. News, xvi, p. 8, 1905.
Horvath, Ann. Mus. Nat. Hung., vi, p. 565, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 466, 1908.
conspicuus Herrich-Schaeffer, Nomen. Ent., p. 59, 1835.
†*corticalis* Herrich-Schaeffer, Wanz. Ins., v, p. 90, fig. 538, 1839.
dilatatus Dufour, Ann. Soc. Ent. Fr., Ser. 2, ii, p. 452, pl. 10, figs. 1–4, [1844.
Fieber, Europ. Hemip., p. 113, 1861.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 52, 1872.
Walker, Cat. Heter., vii, p. 32, 1873.
Reuter, Ent. Tidskr., iii, p. 77, 1882.
annulipes Boheman, Of. Vet. Akad. Forh., ix, p. 25, 1852.
Localities: Quebec, Ont., Pa., N. C., Md., D. C., Ala., Ohio. (Mexico, Palaearctic.)

380. **Aradus compressus** Heid.

Heidemann, Proc. Ent. Soc. Wash., viii, p. 70, 1907.
Localities: **Wash., Van. Isd.**

381. **Aradus ampliatus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Locality: Calif.

382. **Aradus tuberculifer** Kirby

Kirby, *in* Richardson, Fauna Bor. Am., iv, p. 278, pl. 6, fig. 5, 1837.
Kirby, *in* Bethune's reprint, p. 136.
Stål, Enum. Hemip., iii, p. 138, 1873.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 335, 1892.
Bergroth, Can. Ent., xlv, p. 3, 1913 (redescribed).
caliginosus Walker, Cat. Heter., vii, p. 36, 1873.
Localities: Quebec, Ont.

383. **Aradus funestus** Bergr.

Bergroth, Can. Ent., xlv, p. 4, 1913.
†*tuberculifer* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 427, [1877.
Gillette and Baker, Hemip. Colo., p. 58, 1895.
Localities: Quebec. Ont., Colo., Idaho, Calif., Br. Col.

384. **Aradus uniformis** Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 231, 1904.
Localities: Mass., Pa., Va., N. C.

385. **Aradus marginatus** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893.
Localities: Utah.

386. **Aradus lugubris** Fall.

Fallén, Hemip. Suec., Cimic., p. 139, 1829.
Herrich-Schaeffer, Wanz. Ins., viii, p. 115, fig. 888, 1848.
Flor, Rhyn. Livl., i, p. 382, 1860.
Fieber, Europ. Hemip., p. 114, 1861.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 60, 1872.
Reuter, Ent. Tidskr., iii, pp. 76, 107, 1882.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Revue d'Ent., vi, p. 247, 1887.
Reuter, Rev. Synon., p. 235, No. 196, 1888.
Bergroth, Proc. Ent. Soc., Wash., ii, p. 336, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.
Van Duzee, Can. Ent., xliv, p. 323, 1912.
Bergroth, Can. Ent., xlv, p. 5, 1913.
Kiritschenko, Faune Russie, Hemip., vi, pt. 1, p. 209, 1913.
rectus Say, Heter. N. Harm., p. 29, 1832; Fitch reprint, p. 796; Compl. Writ., i, p. 352.
Uhler, Hayden's Surv. Terr. for 1871, p. 419, 1872.
Stål, Enum. Hemip., iii, p. 137, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 428, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1329.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 418, 1878.

Uhler, Check List, p. 22, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 167, 1887.
Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893.
Gillette and Baker, Hemip. Colo., p. 58, 1895.
Sherman, Ent. News, xvi, p. 7, 1905.
affinis Kirby *in* Richardson, Fauna Bor. Am., iv, p. 279, 1837.
Kirby *in* Bethune's reprint, p. 137.
Stål, Enum. Hemip., iii, p. 138, 1873.
Uhler, Wheeler's Surv. 100th Merid., v, p. 839, 1875.
Gillette and Baker, Hemip. Colo., p. 57, 1895.
gebleri Kolenati, Melet. Ent., vi, p. 23, sp. 226, 1856.
fenestratus Walker, Cat. Heter., vii, p. 36, 1873.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Md., N. C., Ga., Fla., Mo., Colo., N. Mex., Calif., Br. Col., Alberta.

387. **Aradus abbas** Bergr.

Bergroth, Bul. Soc. Ent. Belg. for 1889, p. clxxx.
Provancher, Pet. Faune Ent. Can., iii, p. 336, 1890.
Bergroth, Proc. Ent. Soc. Wash., ii, pp. 334, 336, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
Localities: Quebec, Ont., N. Y., N. J.

388. **Aradus breviatus** Bergr.

Bergroth, Revue d'Ent., vi, p. 245, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, pp. 334, 336, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
Localities: N. J., D. C., Fla.

389. **Aradus falleni** Stål

Stål, Rio Jan. Hemip., i, p. 68, 1860.
Stål, Enum. Hemip., iii, p. 136, 1873.
Bergroth, Wien. Ent. Zeit., v, p. 97, 1886.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 338, 1892.
Champion, Biol. Centr. Am., Heter., ii, p. 66, pl. 5, fig. 1, 1898.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
Sherman, Ent. News, xvi, p. 7, 1905.
Bergroth, Can. Ent. xxxviii, p. 200, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
leucotomus Costa, Ann. Mus. Zool. Nap., ii, p. 143, pl. 2, fig. 2, 1864.
pallidicornis Stål, Enum. Hemip., iii, p. 136, 1873.
Localities: D. C., N. C., Ga., Fla., Okl., Texas, Calif. (Neotropical.)

390. **Aradus gracilicornis** Stål

Stål, Enum. Hemip., iii, p. 136, 1873.
Bergroth, Revue d'Ent., vi, p. 246, 1887.
Bergroth, Can Ent., xxxviii, p. 200, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: Fla., Ariz. (West Indies.)

391. **Aradus cinnamomeus** Panz.

Panzer, Fauna Germ., Hft. 100, fig. 20, 1794.
Fieber, Europ. Hemip., p. 111, 1861.
Signoret, Ann. Soc. Ent. Fr., Ser. 4, v, p. 119, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 49, 1872.
Stål, Enum. Hemip., iii, p. 76, 1873.
Walker, Cat. Heter., vii, p. 31, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876.
Reuter, Ent. Tidskr., iii, p. 76, 1882.
Reuter, Revue Synon., p. 232, No. 190, 1888.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
Sherman, Ent. News, xvi, p. 8, 1905.
Bueno and Brimley, Ent. News., xviii, p. 439, 1907.
Kiritschenko, Faune Russie, Hemip., vi, pt. 1, p. 85, 1913.
leptopterus Germar, Fauna Europ., fasc. xvii, fig. 8, 1834.
Herrich-Schaeffer, Nomen. Ent., p. 60, 1835.
Burmeister, Handb. d. Ent., ii, p. 257, 1835.
Herrich-Schaeffer, Wanz. Ins., v, p. 91, fig. 539, 1839; viii, p. 114, 1848.
Flor, Rhyn. Livl., i, p. 394, 1860.
Signoret, Ann. Soc. Ent. Fr., Ser. 4, v, p. 120, 1865.
perrisii Dufour, Ann. Soc. Ent. Fr., Ser. 2, iii, p. 225, pl. 3, fig. 3, 1845.
albopunctatus Scholtz, Arb. und Verh. Schles. Ges. f. Vaterl. Kult. for [1846, p. 116.
Localities: D. C., N. C., Mo., Texas. (Palaearctic.)

391½. **Aradus insoletus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 233, 1916.
Locality: Calif.

392. **Aradus proboscideus** Walk.

Walker, Cat. Heter., vii, p. 35, 1873.
Locality: "Hudson's Bay."

393. **Aradus fascicornis** Walk.

Walker, Cat. Heter., vii, p. 36, 1873.
Locality: "Nova Scotia."

393½. **Aradus luteolus** Fyles

Fyles, Can. Ent., xxxv, p. 75, 1903, §*Aratus*.
Locality: Quebec.

Subgenus **Piestosoma** Lap.
Orthotype *depressus* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 53, 1832.
Stål, Enum. Hemip., iii, p. 135, 1873.

394. **Aradus concinnus** Bergr.

Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
Bergroth, Can. Ent., xxxviii, p. 198, 1906.
Locality: Calif.

Subgenus **Quilnus** Stål
Logotype *parvicollis* Stål

Stål, Enum. Hemip., iii, p. 137, 1873.
Horvath, Ann. Mus. Natl. Hung., ix, p. 586, 1911. (Names *parvicollis* type.)

395. **Aradus niger** Stål

Stål, Enum. Hemip., iii, p. 137, 1873.
Heidemann, Proc. Ent. Soc. Wash., iv, p. 389, 1901.
Van Duzee, Ent. News, xiii, p. 23, 1902.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 161, 1904.
Sherman, Ent. News, xvi, p. 8, 1905.
Bergroth, Can. Ent., xxxviii, p. 200, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 139, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 587, 1911.
obliquus Uhler MS, Gillette and Baker, Hemip. Colo., p. 58, 1895.
Localities: N. Y., N. J., D. C., N. C., S. C., Colo., Texas.

396. **Aradus heidemanni** Bergr.

Bergroth, Can. Ent., xxxviii, p. 200, 1906.
Localities: Oregon, Br. Col.

Subfamily MEZIRINAE (Osh.) 1908

Oshanin, Verz. Palae. Hemip., i, p. 478, 1908, *Mezirina.*
Brachyrhynquides Amyot and Serville, Hémip., pp. xli, 303, 1843.
Brachyrhynchina Stål, Of. Vet. Akad. Forh., xxxvii, p. 671, 1870.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 61, 1872.
Stål, Enum. Hemip., iii, pp. 135, 138, 1873.
Walker, Cat. Heter., vii, p. 6, 1873, Fam. *Brachyrhynchidae.*
Berg, Hemip. Argent., p. 139, 1879.
Uhler, Stand. Nat. Hist., ii, p. 283, 1884.
Uhler, Check List, p. 22, 1886.
Bergroth, Ent. Tidskr., xv, p. 118, 1894. [*rhynchidae.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 38, 1896, *Brachy-*
Champion, Biol. Centr Am., Heter., ii, p. 66, 1898, *Brachyrhynchinae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 156, 1903, *Brachyrhynchinae.*
Aneuridae Douglas and Scott, Brit. Hemip., pp. 26, 267, 1865.
Dysodiidae Reuter, Of. Finska Vet. Soc. Forh., liv, pp. 33, 49, 57, 1912.
Oshanin, Kat. Palae. Hemip., p. 47, 1912.

TRIBE *CALISINI* (Stål)

Stål, Enum. Hemip., iii, p. 138, 1873, Div. *Calisiaria.*
Champion, Biol. Centr. Am., Heter., ii, p. 66, 1898, Group *Calisiaria.*

Genus **Calisius** Stål
Haplotype *pallipes* Stål

Stål, Rio Jan. Hemip., i, p. 67, 1860.
Stål, Hemip. Afr., iii, p. 30, and note, 1865.
Stål, Enum. Hemip., iii, p. 138, 1873.
Bergroth, Ent. Tidskr., xv, p. 98, 1894 (syn. note.)
Champion, Biol. Centr. Am., Heter., ii, p. 66, 1898.
Bergroth, Can. Ent., xlv, p. 5, 1913.

Horvath, Ann. Mus. Natl. Hung., xi, p. 623, 1913 (synop. Old World Spp.).
Aradosyrtis Costa, Ann. Mus. Zool. Nap., ii, p. 132, 1864.
Stål, Enum. Hemip., iii, p. 138, 1873.

397. **Calisius contubernalis** Bergr.

Bergroth, Can. Ent., xlv, p. 6, 1913.
Locality: Fla.

398. **Calisius anaemus** Bergr.

Bergroth, Can. Ent., xlv., p. 7, 1913.
†*pallipes* Heidemann, Proc. Ent. Soc. Wash., vi, p. 229, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.
Banks, Cat. Nearc. Hemip., p. 54, 1910.
Localities: Fla. (West Indies.)

TRIBE *MEZIRINI* Van D.

Van Duzee, Check List Hemip., p. 16, 1916.
Brachyrhyncharia Stål, Enum. Hemip., iii, p. 138, 1873 (Division).
Champion, Biol. Centr. Am., Heter., ii, p. 68, 1898 (Group).

Genus **Proxius** Stål
Haplotype *incrustatus* Stål

Stål, Enum. Hemip., iii, pp. 139, 141, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 68, 1898.

399. **Proxius gypsatus** Bergr.

Bergroth, Ent. Mo. Mag., xxxiv, p. 100, 1898.
Champion, Biol. Centr. Am., Heter., ii, p. 70, pl. 5, figs. 8, 9, 1898.
Bergroth, Can. Ent., xlv, p. 8, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: Fla. (Neotropical.)

400. **Proxius schwarzii** Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 230, 1904.
Locality: Fla.

Genus **Aphleboderrhis** Stål
Haplotype *pilosa* Stål

Stål, Rio Jan. Hemip., i, p. 67, 1860.
Stål, Enum. Hemip., iii, pp. 140, 142, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 78, 1898.

401. **Aphleboderrhis pubescens** (Walk.)

Walker, Cat. Heter., vii, p. 38, 1873, *Aradus*.
Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 57, 1886 (doubtful reference).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 44, 1896, *Pictinus*.
Champion, Biol. Centr. Am., Heter., ii, p. 79, pl. 5, figs. 26, 27, 1898.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 171, 1914.
Localities: Texas. (Neotropical.)

Genus **Pictinus** Stål
Haplotype *cinctipes* Stål

Stål, Enum. Hemip., iii, pp. 140, 145, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 80, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 163, 1903. (Cites *cinctipes* as type.)

402. **Pictinus aurivillii** Bergr.

Bergroth, Revue d'Ent., vi, p. 247, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 229, 1904.
†*cinctipes* var. Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 60, 1886.
Localities: Ga.

Genus **Nannium** Bergr.
Orthotype *parvum* Bergr.

Bergroth, Ent. Mo. Mag., xxxiv, p. 100, 1898.
Champion, Biol. Centr. Am., Heter., ii, p. 84, 1898.

403. **Nannium pusio** Heid.

Heidemann, Proc. Ent. Soc. Wash., xi, p. 189, 1909.
Locality: Ohio.

Genus **Mezira** Am. & Serv.

Haplotype *granulata* Am. & Serv. = *usurpata* Bergr.
Amyot and Serville, Hémip., p. 305, 1843.
Fieber, Europ. Hemip., pp. 34, 115, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 438, 1862.
Stål, Hemip. Afr., iii, pp. 32, 35, 1865.
Walker, Cat. Heter., vii, pp. 6, 22, 1873.
Bergroth, Wien. Ent. Zeit., iv, p. 181, 1885.
Bergroth, Can. Ent., xxxviii, p. 202, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 478, 1908.
Distant, Fauna Br. Ind., Rhyn., v, p. 130, 1910.
Banks, Cat. Neare. Hemip., p. 54, 1910.
‖*Brachyrhynchus* Laporte, Essai Classif. Syst. Hémip., p. 54, 1832. (Ortho-
Burmeister, Handb. d. Ent., ii, p. 254, 1835. [type *orientalis* Lap.)
Blanchard, Hist. des Ins., Hémip., p. 110, 1840.
Amyot and Serville, Hémip., p. 304, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Fieber, Europ. Hemip., pp. 34, 115, 1861.
Stål, Hemip. Afr., iii, p. 32, 1865.
Stål, Enum. Hemip., iii, p. 143, 1873.
Walker, Cat. Heter., vii, pp. 6, 9, 1873.
Uhler, Check List., p. 22, 1886.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 41, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 91, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 159, 1903. (Names *mem-*
[*branaceus* pseudotype.)
†*Dysodius* Spinola, Essai sur les Hémip., p. 160, 1837 (1840) (part).
Dusius Bergroth, Ent. Tidskr., xv, p. 104, 1894.
Bergroth, Wien. Ent. Zeit., xiii, p. 179, 1891.

Subgenus **Arictus** Stål
Orthotype *thoracoccras* Montr.

Stål, Hemip. Afr., iii, p. 31, 1865. (Invalid here.)
Stål, Berl. Ent. Zeit., x, p. 164, 1867. (Valid here.)
Stål, Enum. Hemip., iii, p. 144, 1873.

404. **Mezira lobata** (Say)

Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 799; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 145, 1873, *Brachyrhynchus.* [354, *Aradus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus.*
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892, *Brachyrhynchus.*
Champion, Biol. Cent. Am., Heter., ii, pp. 92, 96, pl. 6, fig. 28, 1898, *Brachy-*
Osborn, Ohio Nat., iv, p. 40, 1903, *Brachyrhynchus.* [*rhynchus.*
Localities: "Canada," Pa., Md., N. C., Ga., Fla., Ohio, Mich., Ind., Ill., Mo., Texas, Calif.

405. **Mezira emarginata** (Say)

Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 798; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 147, 1873, *Brachyrhynchus.* [354, *Aradus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 281, 1894, *Brachyrhynchus.*
Champion, Biol. Centr. Am., Heter., ii, pp. 93, 102, pl. 7, fig. 5, 1898, [*Brachyrhynchus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Brachyrhynchus.*
Localities: Miss.(?), N. Mex., Nevada, Calif.

406. **Mezira moesta** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 438, 1862.
Walker, Cat. Heter., vii, p. 23, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus.*
Champion, Biol. Centr. Am., Heter., ii, pp. 93, 102, 1898, *Brachyrhynchus.*
Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus.*
Localities: N. C.(?), Wyom., Ariz., Calif., Vanc. Isd.

407. **Mezira granulata** (Say)

Say, Heter. N. Harm., p. 30, 1832; Fitch reprint, p. 798; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 145, 1873, *Brachyrhynchus.* [353, *Aradus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878, *Brachyrhynchus.*
Bergroth, Proc. Ent. Soc. Wash., i, p. 336, 1892, *Brachyrhynchus.*
Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
Van Duzee, Can. Ent., xliv, p. 323, 1912.
parvulus (Herrich-Schaeffer), Wanz. Ins., ix, p. 139, fig. 956, 1853, *Dysodius.*
†*lobatus* Provancher, Pet. Faune Ent. Can., iii, p. 168, 1887.
Localities: Md., N. C., S. C., Ga., Fla., Ala., Ind., Mo., Texas.

Genus **Neuroctenus** Mayr

Logotype *brasiliensis* Mayr = *punctulatus* (Burm.)
Fieber, Europ. Hemip., p. 34, 1860 (no species, invalid).
Mayr, Verh. Zool.-Bot. Ges. Wien, xvi, p. 365, 1866 (valid here).
Stål, Enum. Hemip., iii, p. 145, 1873.

Bergroth, Of. Finska Vet. Soc. Forh., xxix, p. 173, 1887. (Synopsis.)
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Champion, Biol. Centr. Am., Heter., ii, p. 106, 1898. [type.)
Distant, Fauna Br. Ind., Rhyn., ii, p. 164, 1903. (Names *caffer* Stål pseudo-

408. Neuroctenus simplex (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 323, 1876, *Brachyrhynchus.*
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Osborn, Ohio Nat., iv, p. 40, 1903.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 162, 1904.
Sherman, Ent. News, xvi, p. 8, 1905, *Brachyrhynchus.*
Sherman, Ent. News, xvi, p. 9, 1905, *Neuroctenus.*
Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: N. Y., N. J., Pa., Md., D. C., N. C., S. C., Ga., Fla., Ohio, Ind., Ill., Mo., Texas.

409. **Neuroctenus pseudonymus** Bergr.

Bergroth, Wien. Ent. Zeit., xvii, p. 27, 1898.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
Sherman, Ent. News, xvi, p. 9, 1905.
†*ovatus* Bergroth, Of. Finska Vet. Soc. Forh., xxix, p. 183, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 336, 1892.
Osborn, Ohio Nat., iv, p. 41, 1903.
Sherman, Ent. News., xvi, p. 8, 1905, *Brachyrhynchus.*
Localities: D. C., N. C., Ohio, Ind.

410. **Neuroctenus elongatus** Osb.

Osborn, Ohio Nat., iv, p. 41, 1903.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
Sherman, Ent. News, xvi, p. 9, 1905.
Bueno and Englehardt, Can. Ent., xlii, p. 150, 1910.
Localities: Pa., N. C., Ohio.

411. **Neuroctenus hopkinsi** Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 163, 1904.
Sherman, Ent. News, xvi, p. 9, 1905.
Locality: N. C.

Genus **Aneurus** Curt.
Haplotype *laevis* (Fabr.)

Curtis, Br. Ent., ii, pl. 86, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 54, 1832. (Cites *laevis* as type.)
Herrich-Schaeffer, Nomen. Ent., pp. 37, 59, 1835.
Burmeister, Handb. d. Ent., ii, p. 253, 1835.
Spinola, Essai sur les Hémip., p. 160, 1837 (1840).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840. (Cites *laevis* as
Amyot and Serville, Hémip., p. 306, 1843. [type.)
Spinola, Tavola Sinot., p. 44, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, p. 141, pl. 310, figs. A–D, 1853.
Flor, Rhyn. Livl., i, p. 395, 1860.

Fieber, Europ. Hemip., pp. 35, 116, 1861.
Douglas and Scott, Br. Hemip., p. 267, 1865.
Stål, Hemip. Afr., iii, p. 32, 1865.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
Reuter, Of. Vet. Akad. Forh., xxix, No. 5, p. 62, 1872.
Stål, Enum. Hemip., iii, p. 146, 1873.
Walker, Cat. Heter., vii, pp. 6, 8, 29, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878.
Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 56, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 168, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 113, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 166, 1903. (Cites *laevis* Fabr. as type.)
Bergroth, Ann. Mus. Natl. Hung., xii, p. 89, 1914. (Exotic forms.)
†*Brachyrhynchus* Brullé, Hist. des Ins., Hémip., ix, p. 335, 1835 (as subgen. [of *Aradus*.)

412. **Aneurus politus** Say

Say, Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 799; Compl. Writ., i, p. [354.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
Stål, Enum. Hemip., iii, p. 146, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
Champion, Biol. Centr. Am., Heter., ii, p. 115, pl. 7, fig. 29, 1898.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: Fla. (Neotropical.)

413. **Aneurus septentrionalis** Walk.

Walker, Cat. Heter., vii, p. 30, 1873.
Bergroth, Revue d'Ent., vi, p. 247, note, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
Champion, Biol. Centr. Am., Heter., ii, p. 116, 1898 (mere notice).
Van Duzee, Can. Ent., xlv, p. 323, 1912.
†*politus* Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.
Localities: Nova Scotia, Quebec, Ont.

414. **Aneurus inconstans** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 105, 1871.
Stål, Enum. Hemip., iii, p. 146, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 420, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa.

415. **Aneurus simplex** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
Stål, Enum. Hemip., iii, p. 146, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892
Champion, Biol. Centr. Am., Heter., ii, p. 116, 1898 (notice only).
Heidemann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.
Localities: "New England," Wash.

416. **Aneurus minutus** Bergr.

Bergroth, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 58, 1886.
Bergroth, Proc. Ent. Soc. Wash., ii, p. 337, 1892.
Champion, Biol. Centr. Am., Heter., ii, p. 114, pl. 7, fig. 27, 1898.
Heidemann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.
Localities: Ga., Fla., Texas, Ariz.

417. **Aneurus fiskei** Heid.

Heidemann, Proc. Ent. Soc. Wash., vi, p. 164, 1904.
Sherman, Ent. News, xvi, p. 9, 1905.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 227, 1908.
Localities: N. Y., Pa., Va., N. C., Ga.

418. **Aneurus tenuicornis** Champ.

Champion, Biol. Centr. Am. Heter., ii, p. 116, pl. 7, fig. 30, 1898.
Locality: Ga.

SERIES *ONYCHIOPHORA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 75, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 27, 31, 49, 1912.
Oshanin, Kat. Palae. Hemip., p. 26, 1912.

Superfamily LYGAEOIDEAE Osh.

Oshanin, Kat. Palae. Hemip., p. 26, 1912.
Neidoideae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.

PHALYNX *LYGAEIFORMES* Osh.

Oshanin, Kat. Palae. Hemip., p. 27, 1912.
Neidiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 31, 49, 1912.

Family **NEIDIDAE** (Kirk.)

Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 302, 1902, subfam. *Neiinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 77, 83, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 47, 49, 58, 1912.
Berytidea Fieber, Genera Hydroc., p. 9, 1851.
Costa, Cimic. Neap., Cent., iii, p. 67, 1852, *Berytini* (subfam. of
Fieber, Wien. Ent. Monats., iii, p. 200, 1859, *Berytideae.* [*Coreidae*).
Fieber, Europ. Hemip., p. 26, 1860, *Berytidae.*
Stål, Hemip. Fabr., ii, p. 119, 1865, *Berytida.*
Douglas and Scott, Brit. Hemip., p. 18, 1865, *Berytina.*
Stål, Enum. Hemip., iv, p. 127, 1874, *Berytina* (subfam. of *Lygaeidae*).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876, *Berytina* (subfam. [of *Coreidae.*)
Uhler, U. S. Geol. Geog. Surv., iii, p. 406, 1877, *Berytinae* (subfam. [of *Coreidae.*)
Distant, Biol. Centr. Am., Heter., i, p. 162, 1881, *Berytinae* (subfam.
Uhler, Stand. Nat. Hist., ii, p. 289, 1884, *Berytidae.* [of *Coreidae.*)
Berg, Hemip. Argent., Add., p. 52, 1884, *Berytina* (subfam. of
Puton, Cat. Hemip. Palae., Edn. 3, p. 19, 1886, *Berytidae.* [*Lygaeidae.*

Uhler, Check List, p. 13, 1886, *Berytidae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 127, 1894, *Berytidae.*
Distant, Fauna Br. Ind., Rhyn., i, p. 421, 1902, *Berytidae.* [*Lygaeidae.*)
Van Duzee, Can. Ent., xli, p. 372, 1909, *Berytidae* (subfam. of
Bergroth, Ann. Soc. Ent. Belg., liv, p. 297, 1910, *Berytidae.*
Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 147, 1910, *Berytinae* (sub-
Banks, Cat. Neare. Hemip., p. 71, 1910, *Berytidae.* [fam. of *Coreidae.*)
Horvath, Ann. Mus. Natl. Hung., ix, p. 13, 1911, *Berytidae.*
Oshanin, Kat. Palae. Hemip., p. 40, 1912, *Berytidae.*

Subfamily **NEIDINAE** Van D.

Van Duzee, Check List Hemip., p. 17, 1916.
Berytidae Douglas and Scott, Brit. Hemip., pp. 19, 149, 1865.
Puton, Cat. Hemip. Palae., edn. 3, p. 19, 1886, *Berytaria.* [(as subfam.).
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 127, 1894, *Berytidae*
Oshanin, Verz. Palae. Hemip., i, p. 236, 1906, *Berytaria* (Division).
Oshanin, Kat. Palae. Hemip., p. 40, 1912, *Berytaria* (Tribe).

Genus **Neides** Latr.

Logotype *tipularius* (Linn.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 246, 1802; xii, p. 209, 1804.
Latreille, Genera Crust. Ins., iii, p. 120, 1807.
Latreille, Consid. Génl., pp. 255, 433, 1810. (Names *tripularius* type.)
Latreille, Fam. Règne Anim., p. 421, 1825 (not Latin).
Curtis, Br. Ent., iv, pl. 150, 1827.
Latreille *in* Cuvier, Règne Anim., Edn. 2, v, p. 198, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 41, 1832. (Cites *tripularius* as type.)
Brullé, Hist. des Ins., ix, p. 354, 1835.
Latreille *in* Cuvier Anim. King., London Edn., iv, p. 163, 1836.
Spinola, Essai sur les Hémip., p. 203, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 115, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. (Cites *tipularius*
Amyot and Serville, Hémip., p. 233, 1843. [as type.)
Spinola, Tavola Sinot., p. 42, 1850.
Dallas, List of Hemip., ii, p. 488, 1852.
Fieber, Europ. Hemip., pp. 54, 209, 1861.
Stål, Enum. Hemip., iv, pp. 127, 128, 1874.
Puton, Cat. Hémip. Palae., Edn. 3, p. 19, 1886.
Uhler, Check List., p. 13, 1886.
Distant, Biol. Centr. Am., Heter., i, p. 460, 1893.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 127, 1894.
Kirkaldy, Proc. Ent. Soc. Wash., vii, p. 28, 1905.
Oshanin, Kat. Palae. Hemip., 40, 1912.
Berytus Fabricius, Syst. Rhyng., p. 264, 1803. (Orthotype *tipularius*
Say, Am. Ent., i, pl. xiv, 1824. [Fabr.)
Fallén, Hemip. Suec., Cimic., p. 164, 1829.
Schilling, Hemip. Silesiae, Beit. z. Ent., ii, p. 55, 1829. [*tipularius* Linn.)
Leach *in* Brewster, Edinbg. Encyc., Am. Edn., viii, p. 710, 1832 (for
Hahn, Wanz. Ins., i, p. 132, 1831.
Herrich-Schaeffer, Nomen. Ent., p. 36, 1835.

Burmeister, Handb. d. Ent., ii, p. 313, 1835.
Reuter, Rev. Synon., pp. 176, No. 112; p. 178, No. 113, note, 1888.
Bergroth, Wien. Ent. Zeit., xxv, p. 10, 1906.
Podicerus Dumeril, Dicty. Hist. Nat., iv, suppl. p. 81, 1816; xxx, p. 406, [1824; xlii, p. 56, 1856. (Type *tipularius* Linn.)
Sphalerocoris Flor, Rhyn. Livl., i, pp. 202, 205, 1860.
†*Capys* Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.

419. **Neides muticus** (Say)

Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 772; Compl. Writ., i, p.
Stål, ? Enum. Hemip., iv, p. 129, 1874. [328, *Berytus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 406, 1877; iv, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 384, 1878. [504, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885, *Capys.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 132, 1894, *Jalysus.*
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Van Duzee, Can. Ent., xli, p. 372, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 148, 1910.
gracilipes Stål, Freg. Eug. Resa, Ins., p. 235, 1859.
decurvatus Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 100, 1871.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872 (as new).
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Ga., Ohio, Mich., Ill., Wis., Neb., Kan., Colo., Utah, Idaho, Ariz., Calif., Vanc. Isd.

Genus **Hoplinus** Stål
Haplotype *spinosissimus* (Sign.)

Stål, Enum. Hemip., iv, pp. 127, 128, 1874.

420. **Hoplinus(?) multispinus** Ashm.

Ashmead, Ent. Am., iii, p. 155, 1887.
Locality: Fla.

Subfamily METACANTHINAE D. & S.

Douglas and Scott, Brit. Hemip., pp. 19, 145, 1865, *Metacanthidae.*
Puton, Synop. Heter. Fr., ii, p. 121, 1879.
Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, Div. *Metacantharia.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 131, 1894, Subfam. *Meta-*
Oshanin, Verz. Palae. Hemip., i, p. 242, 1906, Div. *Metacanthidae.* [*canthidae.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 13, 1907, Fam. *Metacanthidae.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909, Fam. *Metacanthidae.*
Oshanin, Kat. Palae. Hemip., p. 41, 1912, Tribe *Metacantharia.*

Genus **Jalysus** Stål
Logotype *macer* Stål

Stål, Rio Jan. Hemip., ii, p. 59, 1862.
Stål, Enum. Hemip., iv, p. 128, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 162, 1881.
Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.
Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911. (Key.)

421. **Jalysus spinosus** (Say)

Say, Am. Ent., i, pl. 14, 1824; Compl. Writ., i, p. 28, pl. 14, *Berytus.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 402, 1872, *Neides.*
Stål, Enum. Hemip., iv, p. 129, 1874.
Uhler, Wheeler's Surv. 100th Merid., v, p. 832, 1875, *Neides.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 299, 1876; iii, p. 406, 1877, *Neides.*
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1325, *Neides.*
Provancher, Pet. Faune Ent. Can., iii, p. 58, 1885.
Uhler, Check List, p. 13, 1886.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 172, 1894.
Gillette and Baker, Hemip. Colo., p. 19, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 148, 1910.
Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio, Ill., Mich., Wis., Neb., Kan., Colo., Texas.

a. var. **wickhami** Van D.
Van Duzee, Ent. News, xvii, p. 387, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Localities: Utah, Ariz., Calif., Oregon.

422. **Jalysus elongatus** Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 23, 1911.
Locality: Ariz.

423. **Jalysus perclavatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 163, 1909.
†*multispinus* Banks, Cat. Neare. Hemip., p. 71, 1910 (part).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
†*multispinosus* Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.
Localities: N. J., D. C., Fla., Mo., Ariz.

Genus **Protacanthus** Uhl.
Haplotype *decorus* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 707.
Bergroth, Mém. Soc. Ent. Belg., xxii, p. 179, 1913.

424. **Protacanthus decorus** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 708.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 430, 1901, *Metacanthus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 14, 1907; ix, p. 164, 1909.
Bergroth, Mem. Soc. Ent. Belg., xxii, p. 179, 1913.
Van Duzee, Check List Hemip., p. 17, 1916, *Metacanthus.*
capitatus Uhler, Proc. Zool. Soc. Lond. for 1894, p. 181, *Metacanthus.*
Localities: Fla. (West Indies.)

Genus **Pronotacantha** Uhl.
Haplotype *annulata* Uhl.

Uhler, N. Am. Fauna, vii, p. 260, 1893.

425. **Pronotacantha annulata** Uhl.

Uhler, N. Am. Fauna, vii, p. 260, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894, *Acantholaena.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906, *Acantholaena.*
Localities: Ariz., Calif.

Genus **Acanthophysa** Uhl.
Haplotype *echinata* Uhl.

Uhler, N. Am. Fauna, vii, p. 261, 1893.

426. **Acanthophysa echinata** Uhl.

Uhler, N. Am. Fauna, vii, p. 261, 1893.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 352, 1904.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 5, 1914.
Localities: N. Mex., Calif.

Family **LYGAEIDAE** (Schill.)

Schilling, Beit. z. Ent., i, p. 37, 1829, Div. *Lygaeides.*
Hahn, Wanz. Ins., i, p. 231, 1831, *Lygaeides.*
Laporte, Essai Classif. Syst. Hémip., p. 32, 1832, *Lygéites.*
Herrich–Schaeffer, Nomen. Ent., i, p. 36, 1835, *Lygaeidae.*
Burmeister, Handb. d. Ent., ii, pp. iii, 279, 1835, *Lygaeodes.*
Brullé, Hist. des Ins., ix, p. 372, 1835, *Lygéens.*
Spinola, Essai sur les Hémip., p. 224, and chart 14, 1837 (1840), *Lygeites.*
Costa, Cimic. Reg. Neap., Cent., i, p. 38, 1838, *Lygaeini.*
Blanchard, Hist. des Ins., Hémip., p. 127, 1840, *Lygéens.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840, *Lygaeidae.*
Spinola, Tavola Sinot., pp. 26, 27, 38, 1850, *Lygeitae.*
Fieber, Genera Hydroc., p. 9, 1851, *Lygaeodae.*
Dallas, List of Hemip., ii, p. 531, 1852, *Lygaeidae.*
Stål, Freg. Eug. Resa, Ins., p. 240, 1859, *Lygaeides.*
Costa, Cimic. Reg. Neap., Add., p. 16, 1860, *Lygaeidea.*
Flor, Rhyn. Livl., i, p. 213, 1860, *Lygaeodea.*
Stål, Rio Jan. Hemip., i, p. 37, 1860, *Lygaeidae.*
Fieber, Europ. Hemip., pp. 26, 163, 1861, *Lygaeodae.*
Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Lygaeida.*
Stål, Hemip. Afr., ii, p. 120, 1865, *Lygaeida.*
Stål, Hemip. Fabr., i, p. 69, 1868, *Lygaeida.*
Schjoedte, Nat. Tidskr., Ser. 3, vi, p. 266, 1869, *Lygaei.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 659, 1870, *Lygaeina.*
Stål, Enum. Hemip., iv, p. 98, 1874, *Lygaeidae.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876, *Lygaeidae.*
Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, *Lygaeidae.*
Reuter, Revue d. Ent., iv, p. 199, 1885, *Lygaeidae.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, *Lygaeides.*
Uhler, Check List, p. 13, 1886, *Lygaeidae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 135, 1894, *Lygaeidae.*
Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, *Lygaeidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 1, 1903; v, p. 1, 1910, *Lygaeidae.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 10, 1911, *Lygaeidae.*

Oshanin, Kat. Palae. Hemip., p. 27, 1912, *Lygaeidae.*
Infericornes Amyot and Serville, Hémip., pp. xxxvi, 248, 1843.
Myodochidae Kirkaldy, Entomol., xxxii, p. 220, 1899.
Kirkaldy, Can. Ent., xxxix, p. 244, 1907; xl, p. 360, 1908.
Kirkaldy, Trans. N. Zeal. Inst., xli, p. 25, 1908.
Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
Bergroth, Ann. Soc. Ent. Belg., liii, p. 189, 1909.
Kirkaldy, Can. Ent., xlii, p. 63, 1910.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 58, 1912.
Geocoridae Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 306, 1902.
Kirkaldy, Proc. Haw. Ent. Soc., i, pp. 139, 149, 1907.
Pyrrhocoridae Kirkaldy, Entomol., xxxvii, p. 280, 1904.
Kirkaldy, Trans. Ent. Soc. Lond. for 1905, p. 343 (part).

Subfamily **LYGAEINAE** Stål

Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Lygaeida.*
Stål, Hemip. Afr., ii, p. 121, 1865, *Lygaeida.*
Stål, Of. Vet. Akad. Forh., xxvii, No. 7, p. 37, 1872, *Lygaeina.*
Stål, Enum. Hemip., iv, p. 98, 1874.
Berg, Hemip. Argent., p. 98, 1879, *Lygaeina.*
Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, *Lygaeinae.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 20, 1886, Tribe *Lygaeini.*
Uhler, Check List, p. 15, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 135, 1894, Subfam. *Lygaeidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 2, 1903, *Lygaeinae.*
Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, *Lygaeina.*
Banks, Cat. Neare. Hemip., p. 60, 1910, *Lygaeini.*
Oshanin, Kat. Palae. Hemip., p. 27, 1912, *Lygaeinae.*

TRIBE *LYGAEINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxvii, No. 7, p. 40, 1872, Div. *Lygaearia.*
Stål, Enum. Hemip., iv, p. 98, 1874, Div. *Lygaearia.*
Berg, Hemip. Argent., p. 98, 1879, Div. *Lygaearia.*
Distant, Biol. Centr. Am., Heter., i, p. 173, 1882, Div. *Lygaearia.*
Reuter, Revue d'Ent., iv, p. 199, 1885, Div. *Lygaearia.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 2, 1903, Div. *Lygaearia.*
Oshanin, Verz. Palae. Hemip., i, p. 245, 1906, Div. *Lygaearia.*
Oshanin, Kat. Palae. Hemip., p. 27, 1912, Tribe *Lygaearia.*
Astaeopinae Kirkaldy, Can. Ent., xxxix, p. 244, 1907.

Genus **Oncopeltus** Stål
Logotype *famelicus* (Fabr.)

Stål, Hemip. Fabr., i, pp. 70, 75, 1868.
Walker, Cat. Heter., v, p. 37, 1872.
Stål, Enum. Hemip., iv, pp. 98, 101, 1874.
Berg, Hemip. Argent., p. 98, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 174, 1882.
Distant, Fauna Br. Ind., Rhyn., ii, p. 4, 1903.

Subgenus **Oncopeltus** Stål

Stål, Enum. Hemip., iv, p. 101, 1874.

427. **Oncopeltus gutta** (H. S.)

Herrich–Schaeffer, Wanz. Ins., vii, p. 20, fig. 703, 1844, *Lygaeus.*
Dallas, List of Hemip., ii, p. 539, 1852, *Lygaeus.*
Herrich–Schaeffer, Wanz. Ins., ix, p. 200, 1853, *Lygaeus.*
Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 75, 1868.
Walker, Cat. Heter., v, p. 42, 1872.
Stål, Enum. Hemip., iv, p. 101, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876 (*guttas*).
Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 16, fig. 22, 1882.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 15, 1907.
Localities: Ariz., Calif. (Neotropical.)

428. **Oncopeltus varicolor** (Fabr.)

Fabricius, Ent. Syst., iv, p. 149, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 219, 1803, *Lygaeus.*
Dallas, List of Hemip., ii, p. 538, 1852, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 70, 1868.
Stål, Enum. Hemip., iv, p. 102, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 16, fig. 21, 1882.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189.
alternans (Herrich–Schaeffer), Wanz. Ins., vii, p. 20, fig. 704, 1844, *Lygaeus*
Herrich–Schaeffer, Wanz. Ins., ix, p. 200, 1850, *Lygaeus.*
Dallas, List of Hemip., ii, p. 539, 1852, *Lygaeus.*
Locality: Calif.

429. **Oncopeltus sanguinolentus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
Locality: Calif.

Subgenus **Erythrischius** Stål
Logotype *fasciatus* (Dall.)

Stål, Enum. Hemip., iv, p. 102, 1874.

431. **Oncopeltus sandarachatus** (Say)

Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 772; Compl. Writ., i, p.
Stål, Enum. Hemip., iv, p. 103, 1874. [328, *Lygaeus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Erythrischius.*
Distant, Biol. Centr. Am., Heter., i, p. 176, 1882.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907.
†*unifasciatus* var. Herrich–Schaeffer, Wanz. Ins., viii, p. 105, fig. 876, 1848, [*Lygaeus.*
Localities: Calif. (Neotropical.)

432. **Oncopeltus fasciatus** (Dall.)

Dallas, List of Hemip., ii, p. 538, 1852, *Lygaeus* (n.n. for *aulicus* H. S.).
Guerin, Sagra, Hist. de Cuba, Ins., p. 394, 1857, *Lygaeus.*
Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862, *Lygaeus.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 125, 1868, *Lygaeus.*

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872, *Lygaeus.*
Stål, Enum. Hemip., iv, p. 103, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Erythrischius.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326, *Lygaeus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878, *Erythrischius.*
Distant, Biol. Centr. Am., Heter., i, p. 176, pl. 16, fig. 23, 1882.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 140, 1910.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 133, 1911 (egg).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 6, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
Essig, Inj. Ben. Ins., Calif., edn. 2, p. 206, 1915.
†*aulicus* (Herrich-Schaeffer), Wanz. Ins., vi, p. 76, fig. 646, 1842, *Lygaeus.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 196, 1853, *Lygaeus.*
Localities: Mass., N. J., Md., Pa., N. C., Fla., La., Ind., Wis., Texas, Ariz., Calif. (Neotropical.)

433. **Oncopeltus sex-maculatus** Stål

Stål, Enum. Hemip., iv, p. 102, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 174, pl. 17, fig. 1, 1882.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
†*gutta* (Glover), Illust. Ins., Ord. Hemip., p. 45, pl. 7, fig. 15, 1876, *Lygaeus.*
Localities: Fla. (Mexico, Centr. Am.)

Genus **Lygaeus** Fabr.

Logotype *equestris* (Linn.)

Fabricius, Ent. Syst., iv, p. 133, 1794. (Indicates *valgus* as typical).
Latreille, Precis, p. 84, 1796, (no species mentioned).
Lamarck, Syst. Anim. s. Verteb., p. 294, 1801 (as subgen. of *Cimex;* names [*equestris* Linn. type).
Latreille, Hist. Nat. Crust. Ins., iii, p. 243, 1802. (Names *Cimex apterus* [Linn. and *equestris* Linn. as examples.)
Walckenaer, Faune Paris., ii, p. 345, 1802, *Ligeus* (includes Coreids and [Lygaeids.)
Fabricius, Syst. Rhyng., p. 203, 1803 (indicates *tenebrosus* as type).
Latreille, Hist. Nat. Crust. Ins., xii, p. 210, 1804 (gives *equestris* as first [species).
Latreille, Genera Crust. Ins., iii, p. 121, 1807 (includes Coreids and Lygaeids).
Fallén, Monog. Cimic. Suec., p. 62, 1807 (I, Lygaeids; II, Capsids).
Latreille, Consid. Génl., pp. 255, 433, 1810 (names *apterus* as type).
Wolff, Icon. Cimic., v, p. viii, 1811 (after Fabricius).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 495, 1816 (*equestris* first species).
Latreille, Fam. Règ. Anim., p. 421, 1825.
LePelitier and Serville, Encyc. Méthod., x, p. 322, 1825 (mentions *Salda atra,* [*albipennis* and *grylloides* Fabr.)
Latreille, Cuvier, Règne Animal, edn. 2, v, p. 198, 1829 (first correctly re- [stricts genus).
Fallén, Hemip. Suec., Cimic., p. 47, 1829 (gives *equestris* as first species).

Schilling, Beitr. z. Ent., i, pp. 37, 58, 1829 (*equestris* first species).
Laporte, Essai Classif. Syst. Hémip., p. 33, 1832 (names *familiaris* pseudotype).
Herrich–Schaeffer, Nomen. Ent., i, pp. 36, 43, 1835 (for *equestris* and others).
Burmeister, Handb. d. Ent., ii, p. 297, 1835 (for *equestris* and others).
Brullé, Hist. des Ins., ix, p. 384, 1835 (names *militaris* type).
Latreille, Cuvier Anim. Kingd., Lond. Edn., iv, p. 163, 1836.
Spinola, Essai sur les Hémip., p. 258, 1837 (1840) (includes *equestris*).
Blanchard, Hist. des Ins., Hémip., p. 129, 1840 (includes *equestris*).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *equestris*
Guerin, Icon. Reg. Anim., p. 346, 1842. [as type).
Amyot and Serville, Hémip., p. 249, 1843 (for *equestris* and others).
Spinola, Tavola Sinot., p. 38, 1850.
Dallas, List of Hemip., ii, p. 533, 1852 (includes *equestris*).
Flor, Rhyn. Livl., i, p. 219, 1860 (for *familiaris* and *equestris*).
Fieber, Europ. Hemip., pp. 44, 164, 1861 (includes *equestris* and others).
Stål, Of. Vet. Akad. Forh., xix, pp. 210, 212, 1862 (describes *equestris*).
Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.
Stål, Hemip. Afr., ii, p. 125, 1865 (includes *familiaris*).
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 123, 1868.
Stål, Hemip. Fabr., i, p. 71, 1868.
Thompson, Opusc. Ent., fasc. ii, p. 181, 1870 (*equestris* only species).
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.
Walker, Cat. Heter., v, pp. 37, 38, 1872.
Stål, Enum. Hemip., iv, p. 104, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 177, 1882.
Reuter, Revue d'Ent., iv, pp. 199, 201, 1885.
Provancher, Pet. Faune Ent. Can., iii, p. 69, 1886.
Reuter, Rev. Synon., p. 179, No. 115, note 4, 1888 (follows Laporte in fixing
Distant, Fauna Br. Ind., Rhyn., ii, p. 5, 1903. [*familiaris* as type.)
†*Eulygaeus* Berg, Nova Hemip., p. 68, 1892.
†*Stalagmostethus* Kirkaldy, Trans. N. Zeal. Inst., xli, p. 25, 1909.
§*Lygus* Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910.
†*Spilostethus* Bergroth, Rev. Zool. Afr., iii, p. 457, 1914.

Subgenus **Lygaeus** Fabr.
Logotype *equestris* (Linn.)

Van Duzee, Can. Ent., xlvi, p. 381, 1914.
Graptolomus Stål, Hemip. Fabr., i, pp. 73, 75, 1868.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.
Stål, Enum. Hemip., iv, p. 106, 1874.
Eulygaeus Reuter, Rev. Synon., p. 180, No. 116, 1888 (type *equestris*).

434. **Lygaeus turcicus** Fabr.

Fabricius, Syst. Rhyng., p. 218, 1803.
Dallas, List of Hemip., ii, p. 540, 1852.
Herrich–Schaeffer, Wanz. Ins., ix, p. 195, 1853.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 124, 1868.
Stål, Hemip. Fabr., i, p. 73, 1868.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
Walker, Cat. Heter., v, p. 42, 1872.
Stål, Enum. Hemip., iv, p. 107, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878.
Townsend, Ent. Am., iii, p. 53, 1887 (life history).
Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 400, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 191, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Kirkaldy, Proc. Haw. Ent. Soc., i, p. 149, 1907, *Stalagmostethus*.
Parshley, Psyche, xxi, p. 146, 1914.
Bueno, Psyche, xxii, p. 16, 1915.

Localities: Me., Mass., Conn., N. Y., Pa., Va., Mich., Ill., Mo., Okl., Colo., N. Mex., Ariz.

435. **Lygaeus costalis** H. S.

Herrich-Schaeffer, Wanz. Ins., vii, p. 22, fig. 706, 1844; ix, p. 195, 1853.
Dallas, List of Hemip., ii, p. 541, 1852.
Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.
Stål, Enum. Hemip., iv, p. 107, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.
Distant, Biol. Centr. Am., Heter., i, p. 178, 1882.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
†*trux* Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.

Localities: Texas, Ariz., Calif.

436. **Lygaeus reclivatus** Say

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 321, 1825; Compl. Writ., ii, p. 245.
Dallas, List of Hemip., ii, p. 541, 1852.
Stål, Enum. Hemip., iv, p. 107, 1874.
Uhler, Wheeler's Surv. 100th Merid., v, p. 834, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876; iii, p. 408, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 386, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 178, 1882.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
Gillette and Baker, Hemip. Colo., p. 27, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.
?*bipunctulus* Herrich-Schaeffer, Wanz. Ins., ix, p. 195, 1853.
Stål, Enum. Hemip., iv, p. 108, 1874.

a. var. **enotus** Say

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, [p. 329.

Localities: Mo., Dak., Kan., Colo., N. Mex., Texas, Ariz., Nev., Calif., Ore., Wash.

437. **Lygaeus kalmii** Stål

Stål, Enum. Hemip., iv, p. 107, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 178, pl. 17, fig. 2, 1882.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 399, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
Barber, Brookl. Inst. Sci. Bul., i, p. 273, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
†*turcicus* Prov., Pet. Faune Ent. Can., iii, p. 70, 1886.

a. var. **melanodermus** Montd.

Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 400, 1893.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., N. C., Mich., Wis., Ill., Mo., Minn., Kan., Colo., Utah, Texas, Calif. (Mexico.)

438. **Lygaeus truculentus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.
Stål, Enum. Hemip., iv, p. 108, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 302, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 179, pl. 17, fig. 4, 1882.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

Localities: Calif. (Mexico.)

439. **Lygaeus formosus** Blanch.

Blanchard, Hist. des Ins., Hémip., p. 130, 1840.
d'Orbigny, Dict. u. Atl., Zool., ii, Hemip., pl. 4, fig. 1, 1849.
Stål, Enum. Hemip., iv, p. 108, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
elatus Stål, Stet. Ent. Zeit., xxiii, p. 308, 1862.

Localities: Fla. (Neotropical.)

Subgenus **Melanopleurus** Stål
Logotype *bicolor* H. S.

Stål, Enum. Hemip., iv, pp. 105, 109, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.

440. **Lygaeus belfragei** Stål

Stål, Enum. Hemip., iv, p. 109, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanopleurus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
†*bicolor* Snow, Trans. Kan. Acad. Sci., xx, pt. 1, pp. 152, 178, 1906; pt. 2, [p. 159, 1907.
?Bueno, Ent. News, xxiv, p. 22, 1913.

Localities: Texas, N. Mex., Ariz., Calif.

441. **Lygaeus bistriangularis** Say

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 773; Compl. Writ., i, p. [329.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
Stål, Enum. Hemip., iv, p. 109, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanopleurus.*

Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326, *Melanopleurus*.
Distant, Biol. Centr. Am., Heter., i, p. 180, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 69, 1886.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 246, 1894.
Van Duzee, Can. Ent., xliv, p. 319, 1912.
vicinus Dallas, List of Hemip., ii, p. 549, 1852.

a. var. **marginellus** Dall.
Dallas, List of Hemip., ii, p. 548, 1852.
Stål, Enum. Hemip., iv, p. 109, 1874.
Localities: Texas, Colo., Ariz., Calif. (Neotropical.) (Quebec in error.)

442. **Lygaeus albulus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 380, pl. 34, fig. 2, 1893 (January).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 51, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
solida (Uhler), N. Am. Fauna, vii, p. 262, 1893 (May), *Lygaesoma*.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Localities: Fla., Texas, Colo., Utah, Calif.

Subgenus **Craspeduchus** Stål
Logotype *xanthostaurus* H. S.

Stål, Enum. Hemip., iv, pp. 105, 109, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 181, 1882.

443. **Lygaeus uhleri** Stål

Stål, Enum. Hemip., iv, p. 109, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 181, pl. 16, fig. 12, 1882.
Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
Localities: Texas. (Neotropical.)

Subgenus **Ochrostomus** Stål
Logotype *pulchellus* Fabr.

Stål, Enum. Hemip., iv, pp. 105, 110, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 181, 1882.
†*Lygaeus* Stål, Hemip. Fabr., i, p. 71, 1868.

444. **Lygaeus pyrrhopterus** Stål

Stål, Enum. Hemip., iv, p. 110, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Ochrostomus*.
Distant, Biol. Centr. Am., Heter., i, p. 182, pl. 17, fig. 6, 1882.
Localities: Texas, Calif. (Mexico.)

445. **Lygaeus melanopleurus** Uhl.

Uhler, N. Am. Fauna, vii, p. 262, 1893.
Gillette and Baker, Hemip. Colo., p. 27, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 179, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Localities: Colo., Ariz., Calif.

446. **Lygaeus lineola** Dall.

Dallas, List of Hemip., ii, p. 549, 1852.
Stål, Enum. Hemip., iv, p. 110, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.
Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
Localities: Va., Ga., Fla., Texas, N. Mex.

447. **Lygaeus tripligatus** Barber

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 510, 1914.
Locality: Fla.

448. **Lygaeus carnosulus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Locality: Calif.

Subgenus **Melanocoryphus** Stål
Logotype *apuans* Rossi = *albomaculatus* Goeze

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 41, 1872.
Stål, Enum. Hemip., iv, p. 111, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 185, 1882.
Reuter, Revue d'Ent., iv, p. 199, 1885.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 19, 1912.
Ochrimnus Stål, Enum. Hemip., iv, p. 113, 1874.

449. **Lygaeus pusio** (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanocoryphus*.
Locality: Texas.

450. **Lygaeus obscuripennis** (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 303, 1876, *Melanocoryphus*.
Locality: Texas.

451. **Lygaeus nigrinervis** (Stål)

Stål, Enum. Hemip., iv, p. 112, 1874, *Melanocoryphus*.
Distant, Biol. Centr. Am., Heter., i, p. 185, pl. 18, fig. 7, 1882.
Localities: Colo. (Neotropical.)

452. **Lygaeus bicrucis** Say

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 322, 1825; Compl. Writ., ii, p. 246, 1859.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.
Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus*.
Distant, Biol. Centr. Am., Heter., i, p. 185, pl. 16, figs. 14, 15, 1882.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 189, *Melanocoryphus*.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Melanocoryphus*.
Gillette and Baker, Hemip., Colo., p. 27, 1895.

Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
Smith, Cat. Ins. N. J., Edn. 3, p. 140, 1910, *Lygus*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
flavo-marginellus Stål, Freg. Eng. Resa, Ins., p. 241, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 310, 1862.
rubescens Stål, Rio Jan. Hemip., i, p. 37, 1860.
bitransversus Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 947, 1861.
Localities: N. J., Pa., Md., N. C., Ga., Fla., La., Mo., Kan., Colo., Texas, N. Mex., Ariz., Nev., Calif.

453. **Lygaeus facetus** Say

Say, Heter. N. Harm., p. 13, 1832; Fitch reprint, p. 773; Compl. Writ., i, p. 328.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875. [*coryphus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 408, 1877, *Melano-*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326, *Melanocoryphus*.
Gillette and Baker, Hemip. Colo., p. 27, 1895, *Melanocoryphus*.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906; pt. 2, p. 159, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p 509, 1914.
Localities: N. J., Md., Ga., Fla., La., Colo., Texas, N. Mex., Ariz., Calif.

454. **Lygaeus(?) circumlitus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 309, 1862.
Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
Distant, Biol. Centr. Am., Heter., i, p. 186, pl. 16, fig. 13, 1882.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Banks, Cat. Neare. Hemip., p. 61, 1910.
§*circumcinctus* Gillette and Baker, Hemip. Colo., p. 27, 1895.
Localities: Colo.(?), Ariz.(?). (Neotropical.)
[Probably an erroneous determination of *lateralis* Dall.]

455. **Lygaeus rubriger** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 309, 1862.
Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
Distant, Biol. Centr. Am., Heter., i, p. 187, pl. 17, fig. 12, 1882.
Locality: "Carolina" (Stål).

456. **Lygaeus lateralis** Dall.

Dallas, List of Hemip., ii, p. 550, 1852.
Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus*.
Distant, Biol. Centr. Am., Heter., i, p. 187, pl. 18, fig. 1, 1882.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Localities: Colo., Texas, Ariz., Calif.

457. **Lygaeus(?) rubicollis** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Melanocoryphus*.
§*rubricollis* Banks, Cat. Neare. Hemip., p. 62, 1910.
Localities: "Calif." (Banks). (Lower Calif.)

458. **Lygaeus mimulus** (Stål)

Stål, Enum. Hemip., iv, p. 113, 1874, *Melanocoryphus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 164, 1909.
Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 510, 1914.
Localities: Fla., Texas.

459. **Lygaeus admirabilis** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 405, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876, *Melanocoryphus.*
Gillette and Baker, Hemip. Colo., p. 27, 1895, *Melanocoryphus* and *Lygaeus*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904. [(entered twice).
Localities: Colo., N. Mex.

460. **Lygaeus californicus** Walk.

Walker, Cat. Heter., v, p. 42, 1872.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 540, 1901.
Locality: Calif.

Genus **Lygaeosoma** Spin.
Haplotype *sardea* Spin.

Spinola, Essai sur les Hémip., p. 254, 1837 (1840).
Spinola, Tavola Sinot., p. 38, 1850.
Fieber, Europ. Hemip., pp. 45, 167, 1861.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 41, 42, 1872.
Walker, Cat. Heter., v, p. 37, 1872.
Stål, Enum. Hemip., iv, pp. 99, 118, 1874.
Reuter, Revue d'Ent., iv, pp. 200, 205, 1885.
Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911.
Epibomius Distant, Ann. Mag. Nat. Hist., Ser. 8, iii, p. 328, 1909. (Hap-
Distant, Fauna Br. Ind., Rhyn., v, p. 35, 1910. [lotype *pusa* Dist.)

460½. **Lygaeosoma tripunctata** (Dall.)

Dallas, List of Hemip., ii, p. 559, 1852, *Aphanus.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 464, 1901.
Banks, Cat. Nearc. Hemip., p. 68, 1910, *Rhyparochromus.*
Van Duzee, Check List Hemip., p. 22, No. 583, 1916, *Rhyparochromus?*
Locality: Fla.

[**Lygaeosoma adducta** Uhler MS]

Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
Locality: Texas.

TRIBE *ORSILLINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872, Div. *Orsillaria.*
Stål, Enum. Hémip., iv, pp. 98, 119, 1874, Div. *Orsillaria.*
Distant, Biol. Centr. Am., Heter., i, p. 189, 1882, Div. *Orsillaria.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 17, 1903, Div. *Orsillaria.*
Oshanin, Verz. Palae. Hemip., i, p. 259, 1906, Div. *Orsillaria.*
Oshanin, Kat. Palae. Hemip., p. 28, 1912, Tribe *Orsillaria.*
Nysiina Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876 (as subfamily).
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877, Subfam. *Nysiinae.*
Uhler, Check List, p. 13, 1886.

Genus **Ortholomus** Stål
Haplotype *punctipennis* (H. S.)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872 (as subgenus).
Stål, Enum. Hemip., iv, p. 120, 1874 (as subgenus).
Baker, Invert. Pacifica, i, pp. 134, 138, 1906.
Oshanin, Kat. Palae. Hemip., p. 29, 1912 (as subgenus).
Orsillacis Uhler, Check List, p. 14, 1886 (as MS name).

461. **Ortholomus longiceps** (Stål)

Stål, Enum. Hemip., iv, p. 120, 1874, *Nysius*.
Baker, Invert. Pacifica, i, p. 139, 1906.
Van Duzee, Can. Ent., xl, p. 110, 1908; xliv, p. 319, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
†*scolopax* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876, *Orsillus*.
†*fraterculus* (Provancher), Pet. Faune Ent. Can., iii, p. 61, 1885, *Harmostes*.
†*producta* Uhler, Check List, p. 14, 1886, *Orsillacis*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894, *Orsillacis*.
†*providus* (Uhler), Proc. Zool. Soc. Lond. for 1894, p. 182, *Nysius* (in part).
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904, *Nysius*.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910, *Nysius*.
Smith, Cat. Ins. N. J., edn. 3, p. 141, 1910, *Nysius*.
†*jamaicensis* (Distant), Ann. Mag. Nat. Hist., Ser. 7, vii, p. 539, 1901,
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907. [*Nysius*.
Bueno, Jl. N. Y. Ent. Soc., xvii, p. 229, 1908, *Nysius*.

a. var. **cooki** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., S. C., Fla., Wis., Ill., Mo., Neb., Kan., Texas, Calif.

462. **Ortholomus scolopax** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 775; Compl. Writ., i, p.
Stål, Enum. Hemip., iv, p. 122, 1874, *Belanochilus?* [330, *Lygaeus*.
Uhler, Check List, p. 14, 1886, *Orsillus*.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 182, *Nysius*.
?Gillette and Baker, Hemip. Colo., p. 22, 1895, *Orsillus*.
Distant, Ann. Mag. Nat. Hist., Ser. 7, vii, p. 539, 1901, *Nysius*.
Banks, Cat. Nearc. Hemip., p. 63, 1910, *Orsillus*.
Localities: Ind., Ia., ? Colo., Calif.

463. **Ortholomus nevadensis** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Localities: Nevada, Calif.

464. **Ortholomus arphnoides** Bak.

Baker, Invert. Pacifica, i, p. 140, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Locality: Calif.

465. **Ortholomus uhleri** Bak.

Baker, Invert. Pacifica, i, p. 139, 1906.
Locality: Wis.

Genus **Nysius** Dall.
Logotype *thymi* (Wolff)

Dallas, List of Hemip., ii, pp. 531, 551, 1852.
Stål, Freg. Eug. Resa, Ins., p. 242, 1859.
Fieber, Europ. Hemip., pp. 45, 168, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 210, 212, 1862.
Thomson, Opusc. Ent., Fasc. ii, p. 182, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872.
Stål, Enum. Hemip., iv, p. 119, 1874 (sec. cc and aa).
Distant, Biol. Centr. Am., Heter., i, p. 190, 1882.
Horvath, Revue d'Ent., ix, p. 185, 1890. (Key to European species.)
Baker, Invert. Pacifica, i, p. 134, 1906. [pseudotype.)
Distant, Fauna Br. Ind., Rhyn., ii, p. 17, 1903. (Names *zelandicus* Dall.
Horvath, Ann. Mus. Natl. Hung., vii, p. 11, 1910.
Oshanin, Kat. Palae. Hemip., p. 28, 1912. (Names *thymi* type.)
†*Heterogaster* Spinola, Tavola Sinot., p. 38, 1850.
†*Artheneis* Flor, Rhyn. Livl., i, p. 287, 1860 (as subgen. of *Cymus*).
Kirkaldy, Can. Ent., xli, p. 31, 1909. (Names *cymoides pseudotype.*)
Macroparius Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872 (as sub- [genus.)

466. **Nysius californicus** Stål

Stål, Freg. Eug. Resa, Ins., p. 242, 1859.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.
Stål, Enum. Hemip., iv, p. 120, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 409, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.
Baker, Invert. Pacifica, i, pp. 134, 135, 1906.
Barber, Brookl. Inst. Sci. Bul., i, p. 274, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
†*providus* Baker, Invert. Pacifica, i, p. 135, 1906 (as variety).

a. var. **alabamensis** Bak.
Baker, Invert. Pacifica, i, p. 135, 1906.
Localities: Md., N. C., S. C., Ga., Fla., Ala., Miss., Kan., Colo., Dak., Utah, Texas, N. Mex., Ariz., Nevada, Calif., Oregon, Wash. (Mexico.)

467. **Nysius inaequalis** Uhl.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 183.
?Baker, Invert. Pacifica, i, p. 139, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Localities: Fla. (West Indies.)

468. **Nysius thymi** (Wolff)
Wolff, Icon. Cimic., iv, p. 149, fig. 143, 1804, *Lygaeus.*
Fallén, Monog. Cimic., p. 63, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 469, 1828, *Lygaeus.*

Fallén, Hemip. Suec., Cimic., p. 49, 1829, *Lygaeus.*
Schilling, Beitr. z. Ent., i, p. 85, pl. 3, fig. 9, 1829, *Heterogaster.*
Herrich–Schaeffer, Nomen. Ent., p. 46, 1835, *Heterogaster.*
Curtis, Br. Ent., xiii, pl. 597, 1836, *Heterogaster.*
Zetterstedt, Ins. Lapp., Column 262, 1838 (1840), *Lygaeus.*
Dallas, List of Hemip., ii, p. 552, 1852.
Stål, Stet. Ent. Zeit., xix, p. 179, 1858.
Fieber, Europ. Hemip., p. 169, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 213, 1862.
Douglas and Scott, Br. Hemip., p. 226, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 43, 1872.
Horvath, Monog. Lygaeidae, p. 22, 1875.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878.
Mulsant and Rey, Punaise de Fr., v, p. 48, 1879.
Reuter, Revue Synon., p. 186, No. 124, 1888.
Horvath, Revue d'Ent., ix, pp. 186, 188, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Gillette and Baker, Hemip. Colo., p. 22, 1895.
Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
Van Duzee, Can. Ent., xl, p. 110, 1908.
†*ericae* (Flor), Rhyn. Livl., i, p. 292, 1860, *Cymus.*
†*punctipennis* Thomson, Opusc. Ent., ii, p. 182, 1870.
†*maculatus* Douglas and Scott, Ent. Mo. Mag., viii, p. 27, 1870.
saint Cyri Provancher, Nat. Can., iv, p. 77, 1872.
†*groenlandicus* Provancher, Pet. Faune Ent. Can., iii, p. 70, 1886.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
†*angustatus* Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Localities: Quebec, Ont., Me., Mass., N. Y., Md.(?), Colo., Manitoba, Br. Col., Alaska.

469. **Nysius groenlandicus** (Zett.)

Zetterstedt, Ins. Lapp., column 262, 1838 (1840), *Lygaeus.*
Stål, Enum. Hemip., iv, p. 121, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876.
Horvath, Revue d'Ent., ix, p. 186, 1890.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 505, 1900.
Horvath, Ann. Mus. Natl. Hung., viii, p. 14, 1910.
Localities: Greenland, Labrador, Hudson's Bay Terr., Br. Am., Alaska. (Iceland.)

470. **Nysius ericae** (Schill.)

Schilling, Beitr. z. Ent., i, p. 86, pl. 7, fig. 10, 1829, *Heterogaster.*
Herrich–Schaeffer, Nomen. Ent., i, p. 46, 1835, *Heterogaster.*
Horvath, Revue d'Ent., ix, p. 186, 1890.
Oshanin, Verz. Palae. Hemip., i, p. 262, 1906.
Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 78, 1910.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Essig, Inj. Ben. Ins Calif., Edn. 2, p. 207, 1915.
angustatus Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 406, 1872.
Uhler, Wheeler's Surv. 100th Merid., v, p. 835, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 304, 1876; iii, p. 409, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1326.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.
Reuter, Berl. Ent. Zeit., xxix, p. 43, 1885.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2. iv, p. 238, 1894.
Gillette and Baker, Hemip. Colo., p. 21, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Baker, Invert. Pacifica, i, p. 135, 1906.
maculatus Fieber, Europ. Hemip., p. 168, 1861.
albidus Jakowlef, Horae Soc. Ent. Ross., iv, p. 152, 1867.
gracilis Scott, Stet. Ent. Zeit., xxxi, p. 98, 1870.
¶*raphanus* Howard, Phillips Southern Planter for 1872.
Kirkaldy, Entomol., p. 165, 1902.
destructor Riley, 5th Rept. Ins. Mo., p. 113, 1873.

a. var. **minutus** Uhler
Uhler, Hemip. Colo., p. 22, 1895.
Baker, Invert. Pacifica, i, p. 136, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Essig, Inj. Ben. Ins. Calif., Edn. 2, p. 207, 1915.

b. var. **niger** Bak.
Baker, Invert. Pacifica, i, p. 135, 1906.
Localities: Ont., Me., N. H., Mass., N. Y., N. J., Pa., Ohio, Dak., Kan., Colo., Texas, Nev., Calif., Wash.

471. **Nysius coloradensis** Bak.

Baker, Invert. Pacifica, i, pp. 135, 136, 1906.

a. var. **grandis** Bak.
Baker, Invert. Pacifica, i, p. 136, 1906.
Locality: Colo.

472. **Nysius strigosus** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 238, 1894.
Horvath, Ann. Mus. Natl. Hung., vi, p. 558, 1908.
Van Duzee, Trans. San Diego. Soc. Nat. Hist., ii, p. 8, 1914.
†*senecionis* Baker, Invert. Pacifica, i, pp. 135, 136, 1906.
Localities: Colo., N. Mex., Ariz., Nev., Calif., Oregon.

Genus **Belonochilus** Uhl.
Haplotype *numenius* Say

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.
Stål, Enum. Hemip., iv, p. 122, 1874.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 386, 1893.

473. **Belonochilus numenius** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 775; Compl. Writ., i, [p. 331, *Lygaeus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 104, 1871.
Stål, Enum. Hemip., iv, p. 122, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 394, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Heidemann, Proc. Ent. Soc. Wash., v, p. 11, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 166, 1909.
Smith, Cat. Ins. N. J., Edn., 3, p. 141, 1910.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 133, 1911 (egg).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 7, 1914.
Localities: N. Y., N. J., Pa., Md., D. C., Ohio, Ill., Ariz., Calif.

474. **Belonochilus koreshanus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 165, 1909.
Van Duzee, Can. Ent., xli, p. 372, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Locality: Fla.

Genus **Orsillacis** Barb.
Haplotype *producta* Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 169, 1914.

475. **Orsillacis producta** Barb.

Barber, Jl. N. Y. Ent. Soc., xxii, p. 169, 1914.
[Not *Orsillacis producta* of Uhler, Check List., p. 14, 1886.]
Locality: Ariz.

Subfamily CYMINAE Stål

Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862, *Cymida.*
Stål, Hemip. Afr., ii, pp. 121, 149, 1865, *Cymida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 37, 1872, *Cymina.*
Stål, Enum. Hemip., iv, p. 123, 1874, *Cymina.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877, *Cyminae.*
Berg, Hemip. Argent., p. 106, 1879, *Cymina.*
Distant, Biol. Cent. Am., Heter., i, p. 190, 1882, *Cyminae.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 22, 1886, Tribe *Cymini.*
Uhler, Check List, p. 14, 1886, *Cymina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 158, 1894, *Cymidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 19, 1903.
Oshanin, Verz. Palae. Hemip., i, p. 266, 1906, *Cymina.*
Banks, Cat. Nearc. Hemip., p. 58, 1910, *Cymini.*
Oshanin, Kat. Palae. Hemip., p. 29, 1912, *Cyminae.*

TRIBE *ISCHNORRHYNCHINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, p. 44, 1872, Div. *Ischnorrhyncharia.*
Stål, Enum. Hemip., iv, p. 123, 1874, Div. *Ischnorrhyncharia.*
Distant, Biol. Centr. Am., Heter., i, p. 191, 1882, Div. *Ischnorrhyncharia.*
Oshanin, Kat. Palae. Hemip., p. 29, 1912, Tribe *Ischnorrhyncharia.*

Genus **Ischnorrhynchus** Fieb.
Logotype *didymus* Zett. = *resedae* Panz.

Fieber, Europ. Hemip., pp. 51, 199, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862.
Thomson, Opusc. Ent., Fasc. ii, p. 183, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.
Stål, Enum. Hemip., iv, pp. 123, 124, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 192, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 74, 1886.
†*Cymus* Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. (Gives [*Kleidocerus* Westw., a nom. nud., as a synonym.)
Blanchard, Hist. des Ins., Hémip., p. 131, 1840 (follows Westwood).
†¶*Kleydocerus* (Westw., 1841), Sign. Ann. Soc. Ent. Fr., Ser. 6, v, p. 67, [1885 (nom. nud.).
‖*Lyctus* Flor, Rhyn. Livl., i, pp. 287, 294, 1860 (as subgen. of *Cymus*).

476. **Ischnorrhynchus resedae** (Panz.)

Panzer, Fauna Germ., xl, fig. 20, 1797, *Lygaeus.*
Schilling, Beitr. z. Ent., p. 89, pl. 8, fig. 5, 1829, *Heterogaster.*
Herrich-Schaeffer, Nomen. Ent., i, p. 46, 1835, *Heterogaster.*
Burmeister, Handb. d. Ent., ii, p. 292, 1835, *Cymus.*
Brullé, Hist. des Ins., ix, p. 386, 1835, *Lygaeus.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840, *Cymus.*
Blanchard, Hist. des Ins., Hémip., p. 131, 1840, *Cymus.*
Costa, Cimic. Reg. Neap., Cent., ii, p. 31, 1843, *Cymus.*
Kolenati, Melet. Ent., ii, p. 92, 1845, *Cymus.*
Dallas, List of Hemip., ii, p. 586, 1852, *Cymus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 78, 1853, *Cymus.*
Flor, Rhyn. Livl., i, p. 296, 1860, *Cymus.*
Stål, Of. Vet. Akad. Forh., xix, p. 213, 1862.
Douglas and Scott, Br. Hemip., p. 233, 1865.
Douglas and Scott, Ent. Mo. Mag., ii, p. 217, 1866.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 394, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 193, 1882.
Reuter, Revue Synon., p. 187, No. 125, 1888.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 560, 1908.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.
didymus (Zetterstedt), Vet. Akad. Handl. for 1819, p. 71, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 50, 1829, *Lygaeus.*
Fieber, Europ. Hemip., p. 199, 1861.
Stål, Enum. Hemip., iv, p. 124, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876; iii, p. 409, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1326.
Provancher, Pet. Faune Ent. Can., iii, p. 74, 1886.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Gillette and Baker, Hemip. Colo., p. 22, 1895.
puncticollis (Fallén), Hemip. Suec. Cimic., p. 95, 1829, *Phytocoris.*
†*geminatus* Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., Ga., Mich., Ill., Kan., Colo., Utah, Texas, Calif., Wash., Manitoba. (Palaearctic.)

477. **Ischnorrhynchus geminatus** (Say)

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p.
Horvath, Ann. Mus. Natl. Hung., vi, p. 560, 1908. [330, *Lygaeus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
†*resedae* (Uhler), Proc. Ent. Soc. Phila., i, p. 23, 1861, *Cymus.*
Localities: Quebec, Mass., N. Y., D. C., Fla., Ind., Mo.

478. **Ischnorrhynchus franciscanus** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 252, 1859, *Cymus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Locality: Calif.

479. **Ischnorrhynchus salvini** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 194, pl. 19, fig. 2, 1882.
Banks, Cat. Nearc. Hemip., p. 59, 1910.
Localities: Texas. (Guatemala.)

480. **Ischnorrhynchus championi** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 193, pl. 19, fig. 3, 1882.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 184.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907.
Banks, Cat. Nearc. Hemip., p. 59, 1910.
Localities: Texas, Calif. (Neotropical.)

Genus **Cymoninus** Bredd.
Haplotype *subunicolor* Bredd.

Breddin, Deut. Ent. Zeit., –, p. 38, 1907.
†*Ninus* Distant, Biol. Centr. Am., Heter., i, p. 191, 1882.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 19, 1903.
Van Duzee, Check List Hemip., p. 19, 1916.

481. **Cymoninus notabilis** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 191, pl. 19, fig. 4, 1882, *Ninus.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 184, *Ninus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 16, 1907; ix, p. 166, 1909,
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914, *Ninus.* [*Ninus.*
Localities: Fla. (Neotropical.)

TRIBE *CYMINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872, Div. *Cymaria.*
Stål, Enum. Hemip., iv, pp. 123, 125, 1874, Div. *Cymaria.*
Distant, Biol. Cent. Am., Heter., i, p. 390, 1893, Div. *Cymaria.*
Oshanin, Kat. Palae. Hemip., p. 29, 1912, Tribe *Cymaria.*

Genus **Arphnus** Stål
Haplotype *coriacipennis* Stål

Stål, Enum. Hemip., iv, pp. 125, 126, 1876.

482. **Arphnus coriacipennis** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 247, 1859, *Oxycarenus.*
Stål, Enum. Hemip., iv, p. 126, 1874.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Localities: Idaho, Utah, Calif.

Genus **Cymus** Hahn.
Logotype *claviculus* Fall.

Hahn, Wanz. Ins., i, p. 76, 1831.
Burmeister, Handb. d. Ent., ii, p. 292, 1835 (part).
Brullé, Hist. Nat. des Ins., ix, p. 386, 1835.
Spinola, Essai sur les Hémip., p. 258, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 131, 1840.
Amyot and Serville, Hémip., p. 259, 1843.
Spinola, Tavola Sinot., p. 38, 1850.
Dallas, List of Hemip., ii, p. 586, 1851 (part).
Flor, Rhyn. Livl., i, p. 297, 1860 (as subgenus).
Fieber, Europ. Hemip., pp. 52, 203, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 223, 1862.
Thomson, Opusc. Ent., Fasc. ii, p. 183, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.
Stål, Enum. Hemip., iv, pp. 125, 126, 1874.
Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.
Distant, Biol. Centr. Am., Heter., i, p. 390, 1893.
Oshanin, Kat. Palae. Hemip., p. 29, 1912. (Names *claviculus* type.)
[*Kleidocerys* Westw., MS] Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840. [(Synonym).

483. **Cymus luridus** Stål

Stål, Enum. Hemip., iv, p. 126, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 409, 1877.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Cymus sp., Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Localities: Ont., Me., Mass., N. Y., N. J., Pa., Colo., Calif.

484. **Cymus angustatus** Stål

Stål, Enum. Hemip., iv, p. 126, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.
Van Duzee, Psyche, v, p. 27, 1888.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
†*tabida* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908, *Cymodema.*
Localities: Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Kan., Colo., Texas.

485. **Cymus discors** Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 559, 1908.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 28, 1910.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Van Duzee, Can. Ent., xliv, p. 319, 1912.
†*claviculus* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878 (spelled [*clavulus.*)
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Van Duzee, Can. Ent., xl, p. 110, 1908.
†*tabidus* Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.
†*luridus* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908.
Localities: Quebec, Ont., Me., N. H., Vt., N. Y., N. J., Pa.

486. **Cymus bellus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 167, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Locality: Fla.

487. **Cymus breviceps** Stål

Stål, Enum. Hemip., iv, p. 127, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 166, 1909.
Van Duzee, Can. Ent., xli, p. 372, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 141, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
†*tabida* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876, *Cymodema.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893, *Cymodema.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894, *Cymodema.*
?Gillette and Baker, Hemip. Colo., p. 23. 1895.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 229, 1908, *Cymodema.*
exiguum (Horvath), Ann. Mus. Natl. Hung., vi, p. 559, 1908, *Cymodema.*
Bueno *in* Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910, *Cymodema.*
Localities: N. J., Md., D. C., N. C., Fla., Colo., Utah., Calif. (Mexico.)

488. **Cymus guatemalanus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 390, pl. 34, fig. 19, 1893.
Localities: Ariz. (Guatemala.)

Subfamily BLISSINAE (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Blissida.*
Stål, Hemip. Afr., ii, pp. 120, 121, 1865, *Blissida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 37, 44, 1872, *Blissina.*
Stål, Enum. Hemip., iv, p. 129, 1874, *Blissina.*
Berg, Hemip. Argent., p. 103, 1879, *Blissina.*
Distant, Biol. Centr. Am., Heter., i, p. 195, 1882, *Blissinae.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 22, 1886, Tribe *Blissini.*
Uhler, Check List., p. 14, 1886, *Blissina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 162, 1894, *Blissidae.*

Distant, Fauna Br. Ind., Rhyn., ii, p. 21, 1902, *Blissinae.*
Oshanin, Verz. Palae. Hemip., i, p. 270, 1906, *Blissina.*
Banks, Cat. Neare. Hemip., p. 58, 1910, *Blissini.*
Oshanin, Kat. Palae. Hemip., p. 29, 1912, *Blissinae.*

Genus **Ischnodemus** Fieb.
Type *sabuleti* Fall.

Fieber, Weit. Beit. z. Nat. u. Heilk., i, p. 337, 1836.
Fieber, Europ. Hemip., pp. 44, 163, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862.
Thomson, Opusc. Ent., Fasc. ii, p. 182, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 44, 1872.
Walker, Cat. Heter., v, p. 126, 1872.
Stål, Enum. Hemip., iv, pp. 129, 130, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 195, 1882.
Reuter, Revue d'Ent., iv, p. 207, 1885.
Berg, Ann. Mus. Natl. Buen. Aires, vii, p. 87, 1900.
Distant, Fauna Br. Ind., Rhyn., ii, p. 27, 1902.
Van Duzee, Can. Ent., xli, p. 374, 1909. (Key.)
Horvath, Ann. Mus. Natl. Hung., x, p. 608, 1912.
Micropus Spinola, Essai sur les Hémip., p. 218, 1837 (1840) (haplotype [*genei* Spin.)
Dallas, List of Hemip., ii, p. 582, 1852.
Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 24, 1857 (monograph).
†*Blissus* Stål, Hemip. Afr., ii, p. 122, 1865 (section *a* only).
Thops Gistel, Naturges. d. Thierr., p. x, 1848.
Kirkaldy, Entomol., xxxix, p. 248, 1906.
Romicpus Reed, Rev. Chil. Hist. Nat., iv, p. 121, 1900.

489. **Ischnodemus falicus** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl. Writ., i, p. [331, *Lygaeus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 27, pl. 2, fig. 5, 1857, *Micropus.*
Stål, Enum. Hemip., iv, p. 131, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 305, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Van Duzee, Can. Ent., xli, p. 374, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
punctatus Provancher, Nat. Can., iv, p. 76, 1872, *Rhyparochromus.*
Localities: N. Y., N. J., Pa., Md., Wis., Dak., Kan.(?), La.(?), Texas.

490. **Ischnodemus rufipes** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 167, 1909.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Localities: Fla.

491. **Ischnodemus praecultus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 196, pl. 19, fig. 7, 1882.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Localities: Ariz. (Centr. Am.)

492. **Ischnodemus lobatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Locality: Fla.

493. **Ischnodemus slossoni** Van D.

Van Duzee, Ent. News, xx, p. 233, 1909.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Localities: N. C., Fla.

494. **Ischnodemus conicus** Van D.

Van Duzee, Ent. News, xx, p. 234, 1909.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Localities: Texas.

495. **Ischnodemus badius** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 168, 1909.
Van Duzee, Can. Ent., xli, p. 375, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
Locality: Fla.

Genus **Blissus** Burm.
Haplotype *hirtulus* Burm.

Klug, Symb. Phys. Dec. v, pl. 43, fig. 10, 1830 (apparently a nomen nudum).
Burmeister, Handb. d. Ent., ii, p. 290, 1835 (auct. Klug).
Dallas, List of Hemip., ii, p. 583, 1852 (auct. Klug).
Stål, Hemip. Afr., ii, p. 122, 1865 (auct. Klug and Burm.).
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 45, 1872 (auct. Klug).
Stål, Enum. Hemip., iv, pp. 130 (auct. Klug), 132 (auct. Burm.), 1874.
Distant, Biol. Centr. Am., Heter., i, p. 196, 1882 (auct. Burm.).
Provancher, Pet. Faune Ent. Can., iii, p. 76, 1886 (auct. Burm.).
Kirkaldy, Entomol., xxxiv, p. 176, 1901 (auct. Klug).
Distant, Fauna Br. Ind., Rhyn., ii, p. 28, 1903.
Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911 (auct. Burm.).

496. **Blissus leucopterus** (Say)

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p. [329, *Lygaeus.*
Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv (for 1855), p. 509, 1856, [*Micropus.*
Signoret, Ann. Soc. Ent. Fr., Ser. 3, v, p. 31, pl. 2, fig. 11, 1857, *Micropus.*
Riley, 2d Rept. Nox. Ins. Mo., p. 15, 1870, *Micropus.*
Walker, Cat. Heter., v, p. 127, 1872, *Ischnodemus.*
Stål, Enum. Hemip., iv, p. 133, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 392, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 196, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 76, 1886.
Van Duzee, Can. Ent., xviii, p. 209, 1886; xxi, p. 3, 1889.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 185.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 173, 1894.
Webster, U. S. Dept. Agr., Bur. Ent., Bul. 69, 1907.
Morrill, U. S. Dept. Agr., Bur. Ent., Circ. 113, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907; ix, p. 169, 1909.
Kelly and Parks, U. S. Dept. Agr., Bur. Ent., Bul. 95, pt. 3, 1911.
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
Headlee and McColloch, Kans. Agr. Exp. Sta., Bul. 191, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
McCulloch, Ent. News, xxvi, p. 147, 1915 (egg parasite).
Webster, U. S. Dept. Agr., Farmers' Bul. 657, 1915.
Essig, Inj. Ben. Ins. Calif., Edn. 2, p. 208, 1915.

immarginatus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 522, 1856 [(as var.).

dimidiatus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

fulvivenosus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

albivenosus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

apterus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 (as var.).

basalis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 (as var.).

nigricornis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

femoratus Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

rufipedis Fitch, 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 523, 1856 [(as var.).

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Va., N. C., Fla., Ohio, Ind., Mich., Ill., Wis., Mo., Neb., Kan., Minn., Colo., Texas, Calif.

497. **Blissus hirtus** Montd.

Montandon, Ann. Soc. Ent. Belg., xxxvii, p. 405, 1893.
Parshley, Psyche, xxi, p. 145, 1914.
Localities: Me., Pa.

Subfamily Geocorinae (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 212, 1862. *Geocorida.*
Stål, Hemip. Afr., ii, pp. 121, 142, 1865, *Geocorida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 38, 45, 1872, *Geocorina.*
Stål, Enum. Hemip., iv, p. 133, 1874, *Geocorina.*
Berg, Hemip. Argent., p. 105, 1879, *Geocorina.*
Distant, Biol. Centr. Am., Heter., i, p. 197, 1882, *Geocorinae.*
Puton, Cat. Hémip. Palae., Edn. 3, p. 22, 1886, Tribe *Geocorini.*
Uhler, Check List, p. 14, 1886, *Geocorina.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 29, 1903, *Geocorinae.*
Oshanin, Verz. Palae. Hemip., i, p. 276, 1906, *Geocorina.*
Banks, Cat. Neare., Hemip., p. 68, 1910, *Geocorini.*
Oshanin, Kat. Palae. Hemip., p. 30, 1912, *Geocorinae.*

Genus **Geocoris** Fall.
Logotype *grylloides* Linn.

Fallén, Spec. Nov. Hemip. Disp., p. 10, 1814.
Fallén, Hemip. Suec., Cimic., p. 69, 1829.
Herrich–Schaeffer, Nomen. Ent., pp. 36, 47, 1835.
Stål, Of. Vet. Akad. Forh., xix, p. 224, 1862.
Stål, Hemip. Afr., ii, p. 143, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 46, 1872.
Stål, Enum. Hemip., iv, p. 134, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 197, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 85, 1886.
Distant, Fauna Br. Ind., Rhyn., ii, p. 29, 1903. (Names *megacephalus* pseudo-
Oshanin, Kat. Palae. Hemip., p. 30, 1912. (Names *grylloides* type.) [type.)
McAtee, Proc. Biol. Soc. Wash., xxvii, p. 127, 1914.
†*Salda* Latreille, Fam. Nat. Règ. Anim., p. 422, 1825.
Latreille *in* Cuvier, Règ. Anim., Edn. 2, v, p. 198, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 35, 1832.
Brullé, Hist. des Ins., ix, p. 386, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836.
Spinola, Essai sur les Hémip., p. 227, 1837 (1840).
Guerin, Icon. Règn. Anim., p. 347, 1842.
Spinola, Tavola Sinot.. p. 38, 1850.
Ophthalmicus Schilling, Beit. z. Ent., i, p. 62, 1829.
Hahn, Wanz. Ins., i, p. 85, 1831.
Burmeister, Handb. d. Ent., ii, p. 291, 1835.
Herrich–Schaeffer, Wanz. Ins., iv, p. 21, 1839.
Blanchard, Hist. des Ins., Hémip., p. 234, 1840.
Amyot and Serville, Hémip., p. 260, 1843.
Fieber, Ent. Monog., p. 112, 1844.
Dallas, List of Hemip., ii, p. 583, 1852.
Flor, Rhyn. Livl., i, p. 304, 1860.
Fieber, Europ. Hemip., pp. 46, 174, 1861.

498. **Geocoris punctipes** (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl. Writ., i, p. [336, *Salda*.
Stål, Enum. Hemip., iv, p. 135, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 198, pl. 18, fig. 14, 1882.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 224, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
Van Duzee, Trans. San Diego. Soc. Nat. Hist., ii, p. 8, 1914.
McAtee, Proc. Biol. Soc. Wash, xvii, p. 130, 1914.
luniger (Fieber), Wien. Ent. Monat., v, p. 269, 1861, *Ophthalmicus*.
†*pictipes* Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 222, 1908 (error for [*punctipes*.)

Localities: N. J., Md., D. C., S. C., Fla., Ala., La., Colo., Okl., Texas, Ariz., Calif. (Mexico.)

a. var. **paulus** McAtee.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 130, 1914.
Locality: Calif.

499. **Geocoris bullatus** (Say)

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, [p. 336, *Salda.*
Stål, Enum. Hemip., iv, p. 136, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876; iii, p. 409, 1877.
Uhler, Wheeler's Rept. Chief Eng., for 1877, p. 1327.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 85, 1886.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 218, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 169, 1909.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 131, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.

griseus (Dallas), List of Hemip., ii, p. 585, 1852, *Ophthalmicus.*
Stål, Enum. Hemip., iv, p. 137, 1874.
Gillette and Baker, Hemip. Colo., p. 23, 1895.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 220, 1908.

a. var. **borealis** (Dall.)

Dallas, List of Hemip., ii, p. 385, 1852, *Ophthalmicus.*
Stål, Enum. Hemip., iv, p. 137, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 199, pl. 18, fig. 17, 1882.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Gillette and Baker, Hemip. Colo., p. 23, 1895.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 132, 1914.

b. var. **obscuratus** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 220, 1908.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 132, 1914.

c. var. **discopterus** Stål

Stål, Enum. Hemip., iv, p. 136, 1874.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 131, 1914.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Md., Ala., Fla., Ill., Colo., Manitoba, Dak., Utah, Calif.

500. **Geocoris pallens** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854.
Stål, Freg. Eug. Resa, Ins., p. 250, 1859.
Stål, Enum. Hemip., iv, p. 136, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876.
Wheeler's Rept. Chief Eng. for 1877, p. 1326.
?Gillette and Baker, Hemip. Colo., p. 23, 1895 (and as *Ninyas pallens* on p. 23).
McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

a. var. **decoratus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 410, 1877.
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Gillette and Baker, Hemip. Colo., p. 23, 1895.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 221, 1908.
Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.

†*howardi* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.

b. var. **solutus** Montd.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 223, 1908.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.
Localities: Kan., Colo., Utah, N. Mex., Texas, Ariz., Calif.

501. **Geocoris scudderi** Stål

Stål, Enum. Hemip., iv, p. 135, 1874.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 134, 1914.
Locality: Texas.

502. **Geocoris uliginosus** (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl. Writ., i, p. [337, *Salda.*
Stål, Enum. Hemip., iv, p. 136, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876; iii, p. 410, 1877.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 226, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 170, 1909.
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.
†*niger* (Dallas), List of Hemip., ii, p. 586, 1852, *Ophthalmicus.*
fuliginosus Gillette and Baker, Hemip. Colo., p. 23, 1895.
†*ater* Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
Bueno, Jl. N. Y. Ent. Soc., xvi, p 230, 1908.

a. var. **howardi** Montd.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 229, 1908.

b. var. **speculator** Montd.
Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 227, 1908.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.

c. var. **lateralis** (Fieb.)
Fieber, Wien. Ent. Monats., v, p. 271, 1861, *Ophthalmicus.*
McAtee, Proc. Biol. Soc. Wash., xvii, p. 135, 1914.

d. var. **limbatus** Stål
Stål, Enum. Hemip., iv, p. 136, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.
Gillette and Baker, Hemip. Colo., p. 23, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 192, 1904.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 136, 1914.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., D. C., S. C., Ga., Fla., Miss., Ohio, Mich., Ill., Mo., Dak., Manitoba, Kan., Colo., Texas, Wash., Br. Col.

503. **Geocoris duzeei** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 231, 1908.
Locality: Colo.

504. **Geocoris atricolor** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xvi, p. 228, 1908.
McAtee, Proc. Biol. Soc. Wash., xvi, p. 228, 1908.
Localities: Wyom., Colo., Utah, Texas, Calif.

505. **Geocoris carinatus** McAtee

McAtee, Proc. Biol. Soc. Wash., xvii, p. 134, 1914.
Locality: Calif.

506. **Geocoris lividipennis** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 311, 1862.
Stål, Enum. Hemip., iv, p. 137, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 198, pl. 17, fig. 27, 1882.
McAtee, Proc. Biol. Soc. Wash., xvii, p. 133, 1914.
Localities: N. Mex., Br. Col.(?). (Mexico.)

Genus **Isthmocoris** McAtee
Orthotype *picea* Say

McAtee, Proc. Biol. Soc. Wash., xvii, p. 127, 1914.

507. **Isthmocoris piceus** (Say)

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. [336, *Salda.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Ophthalmicus.*
Stål, Enum. Hemip., iv, p. 136, 1874, *Geocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Geocoris.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 393, 1878, *Geocoris.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Geocoris.*
Montandon, Ann. Mus. Natl. Hung., v, p. 90, 1907, *Germalus?*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908; xviii, p. 29, 1910, *Geocoris.*
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910, *Geocoris.*
McAtee, Proc. Biol. Soc. Wash., xvii, p. 129, 1914.
Localities: Mass., Conn., N. Y., N. J., Pa., Md., Ill., Wis., Colo.

508. **Isthmocoris tristis** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854, *Geocoris.*
Stål, Freg. Eugen. Resa, Ins., p. 249, 1859, *Geocoris.*
Stål, Enum. Hemip., iv, p. 136, 1874, *Geocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 306, 1876, *Geocoris.*
Montandon, Ann. Mus. Natl. Hung., v, p. 90, 1907, *Germalus?*
McAtee, Proc. Biol. Soc. Wash., xvii, p. 129, 1914.
Localities: Calif.

509. **Isthmocoris imperialis** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 197, pl. 18, fig. 18, 1882, *Geocoris.*
Barber, Brookl. Inst. Sci. Bul., i, p. 275, 1906.
Localities: Texas. (Centr. Am.)

Subfamily HETEROGASTRINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 40, 62, 1872, *Heterogastrina.*
Stål, Enum. Hemip., iv, p. 168, 1874, *Heterogastrina.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876, *Heterogastrina.*
Uhler, Check List, p. 15, 1886, *Heterogastrina.*
Distant, Biol. Centr. Am., Heter., i, p. 411, 1893, *Heterogastrinae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 176, 1894, *Heterogastridae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 35, 1902, *Heterogastrinae.*
Oshanin, Verz. Palae. Hemip., i, p. 289, 1906, *Heterogastrina.*

Banks, Cat. Neare. Hemip., p. 60, 1910, *Heterogastrini.*
Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Heterogastrinae.*
Phygadicida Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.

Genus **Heterogaster** Schill.
Logotype *urticae* Fabr.

Schilling, Beit. z. Ent., i, p. 84, 1829.
Hahn, Wanz. Ins., i, p. 72, 1831.
Herrich-Schaeffer, Nomen, Ent., i, pp. 36, 46, 1835.
Burmeister, Handb. d. Ent., ii, p. 293, 1835.
Curtis, Br. Ent., xiii, pl. 597, 1836.
Blanchard, Hist. des Ins., Hémip., p. 131, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Suppl., p. 122, 1840.
Spinola, Tavola Sinot., p. 38, 1850.
Dallas, List of Hemip., ii, p. 556, 1852.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 190, 200, 1853.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.
Stål, Enum. Hemip., iv, p. 168, 1874.
Oshanin, Kat. Palae. Hemip., p. 31, 1912 (names *urticae* type).
Phygas Fieber, Weit. Beit. Nat. u. Heilk., i, p. 348, 1836.
Phygadicus Fieber, Europ. Hemip., p. 52, 1860 (unnecessary n.n. for Flor, Rhyn. Livl., i, p. 301, 1860. [*Heterogaster* Schill.).
Fieber, Europ. Hemip., p. 201, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.
Douglas and Scott, Br. Hemip., p. 221, 1865.

510. **Heterogaster behrensii** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876, *Phygadicus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Phygadicus.*
Localities: Utah, Calif.

Subfamily PACHYGRONTHINAE (Stål)

Stål, Hemip. Afr., ii, pp. 121, 145, 1865, *Pachygronthida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 39, note, 1872, *Pachygronthina.*
Stål, Enum. Hemip., iv, p. 138, 1874, *Pachygronthina.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Pachygronthina.*
Distant, Biol. Centr. Am., Heter., i, p. 199, 1882, *Pachygronthinae.*
Puton, Cat. Hémip. Palae., p. 24, 1886, Tribe *Pachygronthini.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 179, 1894, *Pachygronthidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 39, 1903 *Pachygronthinae.*
Oshanin, Verz. Palae. Hemip., i, p. 292, 1906, *Pachygronthina.*
Banks, Cat. Neare. Heter., p. 59, 1910, *Pachygronthini.*
Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Pachygronthinae.*
Teracriina Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 39, 47, 1872.

Genus **Phlegyas** Stål
Haplotype *annulicrus* Stål

Stål, Hemip. Afr., ii, p. 145, 1865.
Stål, Berl. Ent. Zeit., xiii, p. 230, 1869.
Stål, Enum. Hemip., iv, p. 138, 1874.
Berg, Nova Hemip., p. 73, 1892.

Distant, Fauna Br. Ind., Rhyn., ii, p. 39, 1903.
‖*Helonotus* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 312, 1876 (haplotype Provancher, Pet. Faune Ent. Can., iii, p. 71, 1886. [*abbreviatus* Uhl.).
Peliopelta Uhler, Check List, p. 15, 1886 (n.n. for *Helonotus* Uhl.).
Distant, Biol. Centr. Am., Heter., i, p. 411, 1893. [p. 463, 1888.
Helonotocoris Lethierry, Ann. Mus. Civ. Hist. Nat. Genova, Ser. 2, vi,

511. **Phlegyas annulicrus** Stål

Stål, Berl. Ent. Zeit., xiii, p. 230, 1869.
Stål, Enum. Hemip., iv, p. 138, 1874 (as new).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.
Snow, Trans. Kan. Acad. Sci., xx, pt. i, p. 178, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914 (mention).
§*annulicornis* Banks, Cat. Neare. Hemip., p. 60, 1910 (part).
Localities: N. J., "Carolina," Fla., Kan., Utah, Texas, Ariz., Calif.

512. **Phlegyas tropicalis** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 411, pl. 36, fig. 5, 1893, *Peliopelta.*
Banks, Cat. Neare. Hemip., p. 60, 1910.
Localities: "Texas" (Banks). (Mexico.)

513. **Phlegyas abbreviatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 313. 1876; iii, p. 412, 1877, *Helonotus.*
Provancher, Pet. Faune Ent. Can., iii, p. 71, 1886, *Helonotus.*
Van Duzee, Can. Ent., xxi, p. 3, 1889, *Peliopelta.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Peliopelta.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Peliopelta.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Bueno, Jl. N. Y., Ent. Soc., xviii, p. 29. 1910.
Smith, Cat. Ins. N. J., Edn. 3, p. 142, 1910.
†*annulicrus* Berg, Nova Hemip., p. 73, 1892.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 179, 1894 (part).
Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
§*annulicornis* Banks, Cat. Neare. Hemip., p. 60, 1910 (part).
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., Ga., Mich., Ill., Mo., Neb., Colo.

Genus **Oedancala** Am. & Serv.
Haplotype *dorsilinea* Am. & Serv.

Amyot and Serville, Hémip., p. 258, 1843.
Stål, Hemip. Afr., ii, pp. 146, 147, 1865.
Stål, Enum. Hemip., iv, pp. 138, 139, 1874.
Provancher, Pet. Faune Ent. Can., iii, p. 72, 1886.

514. **Oedancala dorsilinea** Am. & Serv.

Amyot and Serville, Hémip., p. 258, pl. 12, fig. 6, 1843.
Stål, Enum. Hemip., iv, p. 139, 1874.
?Berg, Hemip. Argent., p. 107, 1879.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 170, 1909.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 511, 1914.
†*crassimana* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.
†*dorsalis* Berg, Nova Hemip., p. 74, 1892.
Localities: N. J., Md., Ga., Fla., Texas. (? South America.)

515. **Oedancala dorsalis** (Say)

Say, Heter N. Harm., p. 17, 1832; Fitch reprint, p. 779; Compl. Writ., i, p. [335, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876; iii, p. 411, 1877.
Van Duzee, Psyche, v, p. 27, 1888.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
†*crassimana* Stål, Enum. Hemip., iv, p. 139, 1874.
Provancher, Pet. Faune Ent. Can., iii, p. 73, 1886.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910.
Smith, Cat. Ins. N. J., Edn. 3, p. 143, 1910.
†*dorsilinea* Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., S. C., Fla.(?), Ohio, Wis., Okl., Texas.

516. **Oedancala crassimana** Fabr.

Fabricius, Syst. Rhyng., p. 233, 1803, *Lygaeus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 147, 1853, *Pachymerus.*
Stål, Hemip. Fabr., ii, p. 122, 1869.
Localities: "Carolina" (Fabricius; not since recognized).

517. **Oedancala cubana** Stål

Stål, Enum. Hemip., iv, p. 139, 1874. [tion of *dorsilinea.*)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876 (probably a misidentifica-
Localities: "Fla., Texas" (Uhler). (West Indies.)

Genus **Pachygrontha** Germ.
Type *lineata* Germ.

Germar, Silberm. Revue Ent., v, p. 152, 1837.
Stål, Hemip. Afr., ii, pp. 146, 147, 1865.
Stål, Enum. Hemip., iv, pp. 138, 139, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 200. 1882.
Distant, Fauna Br. Ind., Rhyn., ii, p. 40, 1903.
Oshanin, Kat. Palae. Hemip., p. 31, 1912. (Names *lineata* type.)
‡*Pachygroncha* Spinola, Generi d'Insetti Arthr., p. 140, 1852.
Atractophora Stål, Of. Vet. Akad. Forh., x, p. 260, 1853 (invalid here). Stål, Of. Vet. Akad. Forh., xii, p. 34, 1855. (Haplotype *fusifemur* Stål.)
Peliosoma Uhler, Proc. Acad. Nat. Sci. Phila., xii, for 1860, p. 229, 1861. [(Haplotype *antennata* Uhl.)
Dilophos Montrouzier, Ann. Soc. Linn. Lyons, Ser. 2, xi, p. 226, 1865. [(Type *silieri* Montr.)

518. **Pachygrontha bimaculata** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 393, pl. 34, fig. 23, 1893.
Banks, Cat. Neare. Hemip., p. 60, 1910.
Localities: Texas(?) (Banks). (Panama.)

Subfamily OXYCARENINAE (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 212, 1862, *Oxycarenida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 39, 1872, *Oxycarenina.*
Stål, Enum. Hemip., iv, p. 141, 1874, *Oxycarenina.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876, *Oxycarenina.*
Berg, Hemip. Argent. Add., p. 55, 1884, *Oxycarenina.*
Puton, Cat. Hémip. Palae., p. 24, 1886, Tribe *Oxycarenini.*
Uhler, Check List, p. 14, 1886, *Oxycarenina.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 182, 1894, *Oxycarenidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 42, 1903, *Oxycareninae.*
Oshanin, Verz. Palae. Hemip., i, p. 293, 1906, *Oxycarenina.*
Banks, Cat. Nearc. Hemip., p. 59, 1910, *Oxycarenini.*
Oshanin, Kat. Palae. Hemip., p. 31, 1912, *Oxycareninae.*
Aneuropharina Berg, Hemip. Argent., p. 285, 1884.

Genus **Crophius** Stål
Logotype *disconotus* Say

Stål, Enum. Hemip., iv, pp. 141, 142, 1874.
Berg, Hemip. Argent. Add., p. 55, 1884. [*disconotus* type.)
Van Duzee, Bul. Buf. Soc. Nat. Sci, ix, p. 389, 1910. (Monograph. Names
Aneuropharus Berg, Hemip. Argent., p. 285, 1879. (Haplotype *leucocnemis*
Berg, Ann. Soc. Cient. Argent., ix, p. 13, 1880. [Berg.)

Subgenus **Crophius** Stål

519. **Crophius disconotus** (Say)

Say, Heter. N. Harm., p. 14, 1832; Fitch reprint, p. 774; Compl. Writ., i, p.
Stål, Enum. Hemip., iv, p. 142, 1874. [330, *Lygaeus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 371, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Gillette and Baker, Hemip. Colo., p. 24, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 392, 1910.
Bueno, Can. Ent., xliv, p. 212, 1912.
Localities: Quebec, N. H., N. Y., N. J., Pa., D. C., Ala., Mo.,
Colo., Utah, Calif. (Mexico.)

520. **Crophius schwarzi** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 392, fig., 1910.
Locality: Ariz.

521. **Crophius heidemanni** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 393, fig., 1910.
Locality: Ariz.

522. **Crophius bohemani** (Stål)

Stål, Frega. Eugen. Resa, Ins., p. 251, 1859, *Cymus.*
Stål, Enum. Hemip., iv, p. 142, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 307, 1876.
Gillette and Baker, Hemip. Colo., p. 24, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 394, 1910.
Localities: Colo., Utah, Calif., Idaho, Ore., Vanc. Isd.

523. **Crophius angustatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 395, fig., 1910.
Localities: Utah, Calif.

524. **Crophius impressus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 396, fig., 1910.
Locality: Calif.

Subgenus **Mayana** Dist.
Logotype *costata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 387, 1893.

525. **Crophius scabrosus** (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xvii, p. 353, 1904, *Oxycarenus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 397, 1910, *Crophius.*
Banks, Cat. Neare. Hemip., p. 59, 1910, *Oxycarenus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Localities: Neb., Colo., Utah, N. Mex., Calif.

Subfamily RHYPAROCHROMINAE (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 210, 1862, *Rhyparochromida.*
Stål, Hemip. Afr., ii, pp. 121, 152, 1865, *Rhyparochromida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 663, 1870, *Rhyparochromina.*
Myodochina Stål, Of. Vet. Akad. Forh., xxix, No. 7, pp. 40, 50, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1872.
Stål, Enum. Hemip., iv, p. 142, 1874.
Berg, Hemip. Argent., p. 107, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 200, 1882.
Uhler, Check List., p. 14, 1886.
Banks, Cat. Neare. Hemip., p. 63, 1910, *Myodochini.*
Pachymerini Puton, Cat. Hémip. Palae., edn. 3, p. 25, 1886 (as tribe).
Aphanidae Lethierry and Severin, Cat. Génl. Hémip., ii, p. 188, 1894.
Distant, Fauna Br. Ind., Rhyn., ii, p. 45, 1902, *Aphaninae.*
Oshanin, Verz. Palae. Hemip., i, p. 303, 1906, *Aphanina.*
Oshanin, Kat. Palae. Hemip., p. 33, 1912, *Aphaninae.*

TRIBE *MYODOCHINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872, Div. *Myodocharia.*
Stål, Enum. Hemip., iv, pp. 142, 144, 1874, Div. *Myodocharia.*
Berg, Hemip. Argent., p. 107, 1879, Div. *Myodocharia.*
Distant, Biol. Centr. Am., Heter., i, p. 200, 1882, Div. *Myodocharia.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 47, 1902, Div. *Myodocharia.*
Oshanin, Verz. Palae. Hemip., i, p. 303, 1906, Div. *Myodocharia.*
Plociomeraria Puton, Synop. Heter. Fr., i, p. 37, 1878.
Oshanin, Kat. Palae. Hemip., p. 33, 1912.

Genus **Myodocha** Latr.
Orthotype *serripes* Oliv.

Latreille, Gen. Crust. Ins., iii, p. 126, 1807.
Latreille, Consid. Génl., pp. 255, 433, 1810 (type named).
Latreille, Fam. Règne Anim., p. 422, 1825 (French *Myodoque*).
Latreille, *in* Cuvier, Règne Animal, edn. 2, v, p. 199, 1829.

Laporte, Essai Classif. Syst. Hémip., p. 32, 1832 (quotes *serripes*, etc.).
Latreille, *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 164, 1836.
Spinola, Essai sur les Hémip., p. 103, 1837 (1840).
Amyot and Serville, Hémip., p. 256, 1843.
Spinola, Tavola Sinot., p. 40, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 192, 212, 1853.
Walker, Cat. Heter., v, p. 145, 1872.
Stål, Enum. Hemip., iv, pp. 144, 146, 1874.
Distant, Biol. Centr. Am., Heter, i, p. 203, 1882.
Bergroth, Wien. Ent. Zeit., xxxi, p. 162, 1912.
‡*Myodochus* Olivier, Encyc. Méth., viii, p. 105, 1811.
Brullé, Hist. Nat. des Ins., ix, p. 388, 1835.
Blanchard, Hist. des Ins., Hémip., p. 134, 1840.
Chiroleptes Kirby *in* Richardson, Fauna Bor. Am., iv, p. 280, 1837. (Haplotype *raptor* Kirby = *serripes* Oliv.)
Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 306, 1902.
Horvath, Ann. Mus. Natl. Hung., ix, p. 13, 1911.

526. **Myodocha serripes** Oliv.

Latreille, Consid. Génl., p. 433, 1810 (nomen nudum here).
Olivier, Encyc. Méth., viii, p. 106, 1811, *Myodochus*. (Spinola says ix, p. 105.)
Laporte, Essai Classif. Syst. Hémip., p. 33, 1832.
Brullé, Hist. Nat. des Ins., ix, p. 388, 1835, *Myodochus*.
Spinola, Essai sur les Hémip., p. 103, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 134, pl. 5, fig. 4, 1840.
Amyot and Serville, Hémip., p. 258, 1843.
Spinola, Tavola Sinot., p. 40, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, p. 213, fig. 966, 1853.
Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862.
Walker, Cat. Heter., v, p. 145, 1872.
Stål, Enum. Hemip., iv, p. 147, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876; iii, p. 411, 1877.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1327.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878.
Uhler, Stand. Nat. Hist., ii, p. 289, 1884.
Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
Parshley, Psyche, xxi, p. 146, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
petiolata Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 781; Compl. Writ., i, p. 337. (Spelled *opetilata* by error.)
raptor Kirby *in* Richardson's Fauna Bor. Am., iv, p. 281, 1837, *Chiroleptes*. Kirby *in* Bethune's reprint, p. 137.
Localities: Me., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Ohio, Ill., Mo., Neb., Kan., Okl., Colo., La., Texas, N. Mex.

Genus **Heraeus** Stål
Orthotype *triguttata* Guer.

Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862.
Stål, Hemip. Fabr., ii, p. 153, 1865.

Stål, Enum. Hemip., iv, pp. 144, 147, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 204, 1882.

527. **Heraeus triguttatus** (Guer.)

Guerin, Sagra, Hist. de Cuba, Ins., p. 400, 1857, *Lygaeus.*
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862.
Stål, Enum. Hemip., iv, p. 147, 1874.
Banks, Cat. Nearc. Hemip., p. 65, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
Locality: Fla. (West Indies.)

528. **Heraeus plebejus** Stål

Stål, Enum. Hemip., iv, p. 147, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
Localities: N. Y., N. J., Pa., D. C., Fla., Kan., Texas., Ariz.

529. **Heraeus coquilletti** Barber

Barber, Jl. N. Y. Ent. Soc., xxii, p. 165, 1914.
nitens Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 8, 1914.
Localities: Texas, Calif.

530. **Heraeus eximinus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 204, pl. 18, fig. 21, 1882.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Locality: Ariz.

Genus **Sphaerobius** Uhl.
Logotype *gracilis* Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 710.

531. **Sphaerobius insignis** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Heraeus.*
Stål, Enum. Hemip., iv, p. 147, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876; iii, p. 412, 1877, *Heraeus.*
Provancher, Pet. Faune Ent. Can., iii, p. 80, 1886, *Heraeus.*
Uhler, Proc. Zool. Soc. Lond. for 1893, p. 711.
Parshley, Psyche, xxi, p. 146, 1914.
Localities: Me., Minn., S. D., Neb., Colo., Utah.

532. **Sphaerobius quadristriata** Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 24, 1911.
Weiss, Ent. News, xxvii, p. 164, 1916.
[*?orbicollis* Uhl. MS] Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Heraeus.*
Sphaerobius sp.nov., Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Localities: Quebec, N. J.

Genus **Ligyrocoris** Stål
Haplotype *silvestris* Fieb. = *luchsii* Baer.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872.
Stål, Enum. Hemip., iv, pp. 144, 145, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 201, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 79, 1886.
Van Duzee, Can. Ent., xlvi, p. 382, 1914.

533. **Ligyrocoris pseudoheraeus** Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 275, 1906.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 11, p. 51, 1913.
[May not be distinct from *Heraeus eximius* Dist.]
Localities: Ariz., Texas.

534. **Ligyrocoris setosus** (Stål)

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914. [*Heraeus. percultus* Distant, Biol. Centr. Am., Heter., i, p. 205, pl. 19, fig. 10, 1882,
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Localities: Texas, Ariz., Calif. (Guatemala.)

535. **Ligyrocoris slossoni** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 513, 1914.
Locality: Fla.

536. **Ligyrocoris nitidulus** (Uhl.)

Uhler, N. Am. Fauna, vii, p. 262, 1893, *Pamera.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894, *Pamera.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Localities: Colo., N. Mex., Texas, Ariz., Calif.

537. **Ligyrocoris contractus** (Say)

Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 777; Compl. Writ., i, p. [332, *Pamera.*
Stål, Enum. Hemip., iv, p. 145, 1874 (as var. *b* of *sylvestris* of Stål).
Reuter, Berl. Ent. Zeit., xxv, p. 169, 1881.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Van Duzee, Can. Ent., xxxviii, p. 406, 1906; xl, p. 110, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
†*bilobata* (Provancher), Pet. Faune Ent. Can., iii, p. 82. 1886. *Pamera.*
†*balteatus ?* Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.
†*sylvestris* Oshanin, Verz. Palae. Hemip., i, p. 308, 1906 (part).
Reuter, Ann. Soc. Ent. Belg., lvii, p. 79, 1913.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., N. Mex.

538. **Ligyrocoris diffusus** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 101, 1871, *Plociomerus.*
Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Cymbogaster.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, pp. 407, 408, 1872, *Plociomerus.*
Van Duzee, Can. Ent., xl, p. 110, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.
†*sylvestris* Stål, Enum. Hemip., iv, p. 145, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876; iii, p. 411, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Gillette and Baker, Hemip. Colo., p. 24, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 353, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 193, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 549, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910.
Localities: Quebec, Ont., Me., N. H., Mass., Conn., R. I., N. Y., N. J., Pa., Md., D. C., N. C., Kan., Colo., Ariz., Calif.

539. **Ligyrocoris litigiosus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 313, 1862, *Plociomera*.
Distant, Biol. Cent. Am., Heter., i, p. 201, pl. 17, fig. 19, 1882.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
Localities: Fla. (Neotropical.)

540. **Ligyrocoris abominalis** (Guer.)

Guerin *in* Sagra, Hist. de Cuba, Ins., p. 397, 1857, *Lygaeus*.
Stål, Enum. Hemip., iv, p. 146, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 202, pl. 17, fig. 21, 1882.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 512, 1914.
piligera (Stål), Stet. Ent. Zeit., xxiii, p. 312, 1862, *Plociomera*.
†*constrictus* (Uhler), Proc. Bost. Soc. Nat. Hist., xiv, p. 101, 1871, *Plociomerus* (part).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876 (part).
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878 (part).
Localities: Fla., Texas. (Neotropical.)

541. **Ligyrocoris multispinus** (Stål)

Stål, Enum. Hemip., iv, p. 145, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 201, pl. 17, fig. 18, 1882.
Berg, Nova Hemip., p. 74, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Locality: Fla. (Neotropical.)

542. **Ligyrocoris confraternus** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 512, 1914.
Locality: Fla.

Genus **Perigenes** Dist.
Haplotype *dispositus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 396, 1893.
Van Duzee, Can. Ent., xlvi, p. 382, 1914.

543. **Perigenes constrictus** (Say)

Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl. Writ., i, p. [332, *Pamera.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 101, 1871, *Plociomerus* (part).
Stål, Enum. Hemip., iv, p. 146, 1874, *Ligyrocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 309, 1876, *Ligyrocoris* (part).
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1327, *Ligyrocoris.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 388, 1878, *Ligyrocoris* (part).
Provancher, Pet. Faune Ent. Can., iii, p. 79, 1886, *Ligyrocoris.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 240, 1894, *Ligyrocoris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Ligyrocoris.*
Gillette and Baker, Hemip. Colo., p. 24, 1895, *Ligyrocoris.*
Barber, Brookl. Inst., Sci. Bul., i, p. 275, 1906, *Ligyrocoris.*
Van Duzee, Can. Ent., xli, p. 372, 1909.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910, *Ligyrocoris.*
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Ligyrocoris.*
Van Duzee, Can. Ent., xlvi, p. 382, 1914.
fallax Heidemann, Proc. Ent. Soc. Wash., v, p. 156, 1903.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 230, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910.
Localities: Ont., N. H., Mass., N. Y., N. J., D. C., Ohio, Kan., Colo.

544. **Perigenes similis** Barb.

Barber, Brookl. Inst. Sci. Bul., i, p. 276, 1906.
Locality: Texas.

545. **Perigenes costalis** Van D.

Van Duzee, Can. Ent., xli, p. 373, 1909.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 29, 1910.
Localities: N. Y., Md., Ohio, Manitoba.

Genus **Paromius** Fieb.
Logotype *leptopoides* Baer

Fieber, Europ. Hemip., pp. 45, 170, 1861.
Stål, Hemip. Afr., ii, p. 157, 1865 (as subgenus).
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872.
Stål, Enum. Hemip., iv, p. 1874 (as subgenus).
Puton, Synop. Hemip. Fr., i, p. 38, 1878.
Distant, Fauna Br. Ind., Rhyn., ii, p. 50, 1903.
Oshanin, Kat. Palae. Hemip., p. 33, 1912 (cites *leptopoides* as type).
‖*Stenocoris* Rambur, Fauna Ent. Andal., p. 139, 1842 (type *gracilis* Ramb.).

546. **Paromius longulus** (Dall.)

Dallas, List of Hemip., ii, p. 578, 1852, *Rhyparochromus.*
Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*
Distant, Biol. Centr. Am., Heter., i, p. 206, pl. 17, fig. 26, 1882, *Pamera.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 512, 1914.
Localities: N. C., S. C., Ga., Fla., Miss., La., Texas. (Neotropical.)

Genus **Orthaea** Dall.
Logotype *consuta* Dall.

Dallas, List of Hemip., ii, p. 580, 1852.
Kirkaldy, Entomol., xxxv, p. 137, 1902.
Van Duzee, Can. Ent., xlvi, p. 382, 1914.

¶*Pachybrachius* Hahn, Icon. Monog. Cimic., pl. 18, 1826 (for *luridus* Hahn). [(*See* Bergroth, Ent. Mitt., ii, p. 11, 1913.)

‡*Plociomerus* Amyot and Serville, Hémip., p. 255, 1843.
Baerensprung, Berl. Ent. Zeit., iii, p. 329, 1859.
Fieber, Europ. Hemip., pp. 45, 171, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 210, 213, 1862.
Stål, Hemip. Afr., ii, pp. 154, 156, 1865.
Thompson, Opusc. Ent., ii, p. 193, 1870.
Walker, Cat. Heter., v, p. 116, 1872.

Gyndes Stål, Stet. Ent. Zeit., xxiii, p. 314, 1862 (orthotype *malaya* Stål).
Stål, Hemip. Afr., ii, p. 154, 1865. [*fracticollis* Stål).

Diplonotus Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872 (logotype

†*Pamera* Stål, Enum. Hemip., iv, p. 147, 1874.
Berg, Hemip. Argent., p. 108, 1879.
Distant, Biol. Centr. Am., Heter., i, p. 206, 1882.
Uhler, Check List, p. 15, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 82, 1886.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 191, 1894.
Distant, Fauna Br. Ind., Rhyn., ii, p. 51, 1903 (names *vincta* pseudo-
Bergroth, Wien. Ent. Zeit., xxv, p. 9, 1906. [type.)
Oshanin, Verz. Palae. Hemip., i, p. 305, 1906.
Banks, Cat. Neare. Hemip., p. 66, 1910.
Oshanin, Kat. Palae. Hemip., p. 33, 1912.

547. **Orthaea vincta** (Say)

Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 777; Compl. Writ., i, p.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera*. [333, *Pamera*.
Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 480, 1901, *Pamera*.
Distant, Fauna Br. Ind., Rhyn., ii, p. 52, 1903, *Pamera*.
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 301, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907, *Pamera*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera*.
Distant, Fauna Br. Ind., Rhyn., v, p. 50, 1910, *Pamera*.
Distant, Trans. Linn. Soc. Lond., xvi, p. 152, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.

gutta (Dallas), List of Hemip., ii, p. 573, 1852, *Rhyparochromus*.

parvulus (Dallas), List of Hemip., ii, p. 576, 1852, *Rhyparochromus*.
Stål, Hemip. Afr., ii, p. 159, 1865, *Plociomera*.
Stål, Ann. Soc., Ent. Fr., Ser. 4, v, p. 187, 1865, *Plociomera*.
Walker, Cat. Heter., v, p. 117, 1872, *Plociomerus*.
Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera*.
Distant, Biol. Centr. Am., Heter., i, p. 206, pl. 19, fig. 12, 1882, *Pamera*.

amyoti (Guerin), in Sagra, Hist. de Cuba, Ins., p. 400, 1857, *Lygaeus*.

vinulus (Stål), Freg. Eugen. Resa, Ins., p. 246, 1859, *Rhyparochromus*.
Stål, Rio Jan. Hemip., i, p. 40, 1860, *Rhyparochromus* (as new).

reductus (Walker), Cat. Heterop., v, p. 120, 1872, *Plociomerus*.

bipunctatus Kirby, Jl. Linn. Soc., Zool., xx, p. 547, 1894, *Ligyrocoris.*
periplanios Kirkaldy, Can. Ent., xxxix, p. 246, 1907.
†*pacifica* Kirkaldy, Proc. Linn. Soc. N. S. Wales, xxxii, p. 776, 1907.
Localities: N. C., Ga., Fla., Texas. (Neotropical, Europe, Asia, Africa, Pacific Isds.)

548. **Orthaea curvipes** (Stål)

Stål, Enum. Hemip., iv, p. 148, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera.*
Localities: N. C., Texas, N. Mex. (West Indies.)

549. **Orthaea bilobata** (Say)

Say, Heter. N. Harm., p. 17, 1832; Fitch reprint, p. 779; Compl. Writ., i, p. 334, *Pamera.*
Stål, Stet. Ent. Zeit., xxiii, p. 312, 1862, *Plociomerus.*
Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 187, 1865, *Pamera.*
Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera.*
Berg, Hemip. Argent., p. 108, 1879, *Pamera.*
Distant, Biol. Centr. Am., Heter., i, p. 207, 1882, *Pamera.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186, *Pamera.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894, *Pamera.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 17, 1907, *Pamera.*
Van Duzee, Can. Ent., xli, p. 127, 1909, *Pamera.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera.*
?Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Pamera.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
maculata (Amyot and Serville), Hémip., p. 255, 1843, *Plociomerus.*
Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera.*
ochroceras (Stål), Freg. Eugen. Resa, Ins., p. 245, 1859, *Rhyparochromus.*
Stål, Rio Jan. Hemip., i, p. 39, 1860, *Rhyparochromus* (as new).
Localities: N. C., S. C., Ga., Fla., Miss., La., Texas. (Neotropical.)

550. **Orthaea servillei** (Guer.)

Guerin, *in* Sagra, Hist. de Cuba, Ins., p. 399, 1857, *Lygaeus.*
Stål, Stet. Ent. Zeit., xxiii, p. 312, 1862, *Plociomera* (redescribed).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
scutellatus (Dallas), List of Hemip., ii, p. 575, 1852, *Rhyparochromus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera.*
†*bilobata* (Distant), Biol. Centr. Am., Heter., i, pl. 17, fig. 25, 1882, *Pamera.*
Localities: Fla. (West Indies, Mexico.)

551. **Orthaea vicina** (Dall.)

Dallas, List of Hemip., ii, p. 576, 1852, *Rhyparochromus.*
Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera.*
Locality: "N. Am."

552. **Orthaea nitidicollis** (Stål)

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera.*
Locality: Texas.

553. **Orthaea setosa** (Stål)

Stål, Enum. Hemip., iv, p. 150, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera.*
Locality: Texas.

554. **Orthaea basalis** (Dall.)

Dallas, List of Hemip., ii, p. 575, 1852, *Rhyparochromus.*
Stål, Enum. Hemip., iv, p. 152, 1874, *Pamera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876, *Pamera.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Pamera.*
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Pamera.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909, *Pamera.*
Bueno, Jl. N. Y. Ent. Soc., xvii, p. 30, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 143, 1910, *Pamera.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 514, 1914.
Localities: N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ohio, Mich., Ill., Neb., Kan., Miss., Texas.

555. **Orthaea dallasi** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 208, pl. 19, fig. 14, 1882, *Pamera* (n.n.).
†*lineatus* (Dallas), List of Hemip., ii, p. 575, 1852, *Rhyparochromus.*
Banks, Cat. Neare. Hemip., p. 66, 1910, *Pamera.*
Locality: "North America."

Genus **Pseudopamera** Dist.
Haplotype *aurivilliana* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 209, 1882.

556. **Pseudopamera forreri** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 399, pl. 35, fig. 5, 1893.
Banks, Cat. Neare. Hemip., p. 67, 1910 (spelled *ferrerei*).
Localities: "Ariz." (Central America.)

Genus **Ptochiomera** Say
Haplotype *nodosa* Say

Say, Heter. N. Harm., p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. 335.
Uhler, Check List, p. 15, 1886.
Banks, Cat. Neare. Hemip., p. 67, 1910.
‡*Plociomerus* Amyot and Serville, Hémip., p. 255, 1843.
Stål, Enum. Hemip., iv, p. 152, 1874, *Plociomera.*
Distant, Biol. Centr. Am., Heter., i, p. 209, 1882, *Plociomera.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 194, 1894, *Plociomera.*

557. **Ptochiomera nodosa** Say

Say, Heter. N. Harm, p. 18, 1832; Fitch reprint, p. 780; Compl. Writ., i, p. 335.
Stål, Berl. Ent. Zeit., x, p. 161, 1867, *Plociomerus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 100, 1871.
Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 387, 1878.
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Plociomerus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 171, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
clavatus (Dallas), List of Hemip., ii, p. 560, 1852, *Aphanus.*
Localities: Pa., Md., N. C., Ga., Fla., La., Mo., Texas.

558. **Ptochiomera clavigera** Uhl.

Uhler, Hemip. Colo., p. 24, 1895.
Localities: Kan., Colo.

559. **Ptochiomera fuscicornis** Stål

Stål, Enum. Hemip., iv, p. 152, 1874, *Plociomera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.
Barber, Brookl. Inst. Sci. Bul., i, p. 276, 1906, *Plociomera.*
Locality: Texas.

560. **Ptochiomera antennata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 172, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
Localities: Fla., Ariz.(?).

561. **Ptochiomera minima** (Guer.)

Guerin *in* Sagra, Hist. de Cuba, Ins., p. 398, 1857, *Lygaeus.*
Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomerus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
Localities: Fla., La., Texas. (West Indies.)

562. **Ptochiomera oblonga** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 313, 1862, *Plociomera.*
Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera.*
Distant, Biol. Centr. Am., Heter., i, p. 209, pl. 17, fig. 24, 1882, *Plociomera.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894.
Localities: Texas. (Neotropical.)

563. **Ptochiomera formosa** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 210, pl. 19, fig. 25, 1882, *Plociomera.*
Banks, Cat. Neare. Hemip., p. 67, 1910.
Localities: Texas, Ariz. (Neotropical.)

564. **Ptochiomera puberula** Stål

Stål, Enum. Hemip., iv, p. 153, 1874, *Plociomera.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876; iii, p. 411, 1877.
Localities: Colo., Texas.

Genus **Dycoderus** Uhl.
Haplotype *picturatus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 507, 1901.

565. **Dycoderus picturatus** Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 508, 1901.
Localities: Colo., Ariz.

Genus **Cnemodus** H. S.
Haplotype *brevipennis* H. S. = *mavortius* Say

Herrich-Schaeffer, Wanz. Ins., ix, p. 184, 1853.
Stål, Hemip. Afr., ii, p. 153, 1865.
Stål, Enum. Hemip., iv, pp. 145, 153, 1874.

566. **Cnemodus mavortius** (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 782; Compl. Writ., i, p. [337, *Astemma.*
Stål, Berl. Ent. Zeit., x, p. 161, 1867.
Stål, Enum. Hemip., iv, p. 153, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 387, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894.
Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 483, 1901.
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.
Bueno and Engelhardt, Can. Ent., xlii, p. 149, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. N. S. 113, p. 51, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
Parshley, Psyche, xxi, p. 146, 1914.
brevipennis Herrich-Schaeffer, Wanz. Ins., ix, p. 184, fig. 948, 1853.
alacris (Walker), Cat. Heter., v, p. 147, 1872, *Thaumastopus?*
Localities: Me., Mass., N. Y., N. J., Pa., Md., N. C., Ga., Fla., Ind., Mo., Texas.

567. **Cnemodus inflatus** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 109, 1915.
Locality: N. C.

568. **Cnemodus sobrius** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 241, 1894.
Localities: Calif. (Mexico.)

Genus **Pseudocnemodus** Barb.
Haplotype *bruneri* Barb. = *canadensis* Prov.

Barber, Jl. N. Y. Ent. Soc., xix, p. 25, 1911.
†*Pterometus* Provancher, Pet. Faune Ent. Can., iii, p. 84, 1886.

569. **Pseudocnemodus canadensis** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 84, 1886, *Pterometus.*
Van Duzee, Can. Ent., xliv, p. 320, 1912.
Bueno, Ent. News, xxvi, p. 277, 1915.
Weiss, Ent. News, xxvii, p. 164, 1916.
bruneri Barber, Jl. N. Y. Ent. Soc., xix, p. 26, 1911.
Bueno, Can. Ent., xliv, p. 212, 1912.
Localities: Quebec, Ont., Conn., N. Y., N. J., N. C., Kan., Neb.

Genus **Carpilis** Stål
Haplotype *ferruginea* Stål

Stål, Enum. Hemip., iv, pp. 145, 153, 1874.

570. **Carpilis ferruginea** Stål

Stål, Enum. Hemip., iv, p. 153, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 308, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894.
Bueno, Can. Ent., xliv, p. 212, 1912.
Localities: N. Y., Texas, N. Mex.

TRIBE *RHYPAROCHROMINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 51, 1872, Div. *Rhyparochromaria.*
Stål, Enum. Hemip., iv, pp. 142, 154, 1874, Div. *Rhyparochromaria.*
Puton, Synop. Heter. Fr., i, p. 37, 1878, *Rhyparochromaria.*
Distant, Biol. Centr. Am., Heter., i, p. 212, 1882, Div. *Rhyparochromaria.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 59, 1903, Div. *Rhyparochromaria.*
Oshanin, Verz. Palae. Hemip., i, p. 309, 1906, Div. *Rhyparochromaria.*
Oshanin, Kat. Palae. Hemip., p. 33, 1912, Tribe *Rhyparochromaria.*

Genus **Ozophora** Uhl.
Haplotype *picturata* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 102, 1871.
Stål, Enum. Hemip., iv, pp. 154, 156, 1874.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 389, 1878 (redescribed). [Dist.)
Davila Distant, Biol. Centr. Am., Heter., i, p. 394, 1893 (logotype *concava*
Peggichisme Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Davila.*).

571. **Ozophora picturata** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 102, 1871.
Stål, Enum. Hemip., iv, p. 156, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 310, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 390, 1878.
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Bueno, Can. Ent., xliv, p. 212, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914.
consanguineus (Distant), Biol. Centr. Am., Heter., i, p. 395, pl. 35, fig. 2,
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 186. [1893, *Davila.*
Localities: Mass., N. J., Pa., Md., Fla., Texas, Ariz.

572. **Ozophora trinotata** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
Locality: Fla.

573. **Ozophora burmeisteri** (Guer.)

Guerin, *in* Sagra, Hist. de Cuba, Ins., p. 397, 1857, *Lygaeus.*
Stål, Ann. Soc. Ent. Fr., Ser. 4, v, p. 187, 1865.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894.
Barber, Brookl. Inst., Sci. Bul., i, p. 276, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 515, 1914.
Localities: Fla., Texas. (Neotropical.)

574. **Ozophora concavus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 394, pl. 35, fig. 1, 1893, *Davila.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907.
Localities: Fla. (Neotropical.)

575. **Ozophora unicolor** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 242, 1894.
Banks, Cat. Nearc. Hemip., p. 66, 1910.
Localities: "Calif." (Banks). (Mexico.)

Genus **Tempyra** Stål
Haplotype *biguttula* Stål

Stål, Enum. Hemip., iv, pp., 155, 157, 1874.

576. **Tempyra biguttula** Stål

Stål, Enum. Hemip., iv, p. 157, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
Localities: Md., Texas.

Genus **Pamphantus** Stål
Haplotype *elegantulus* Stål

Stål, Enum. Hemip., iv, pp. 155, 157, 1874.

577. **Pamphantus elegantulus** Stål

Stål, Enum. Hemip., iv, p. 157, 1874.
Uhler, Check List, p. 15, 1886.
Localities: "South States" (Uhler). (West Indies.)

Genus **Antillocoris** Kirk.
Haplotype *pallidus* Uhl.

Kirkaldy, Entomol. xxxvii, p. 280, 1904 (n.n. for *Pygaeus* Uhl.).
Bergroth, Ann. Soc. Ent. Belg., lvii, p. 153. 1913.
‖*Salacia* Stål, Enum. Hemip., iv, pp. 156, 157, 1874 (Section *aa* only).
†*Salacia* Distant, Biol. Cent. Am., Heter., i, p. 406, 1893.
‖*Pygaeus* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187 (haplotype *pallidus* [Uhl.)
Van Duzee, Can. Ent., xli, p. 373, 1909.

578. **Antillocoris pilosulus** (Stål)

Stål, Enum. Hemip., iv, p. 158, 1874, *Salacia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Salacia* (part).
Bergroth, Revue d'Ent., xiv, p. 143, 1895, *Cligenes.*
Bueno, Can. Ent., xliv, p. 212, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914, *Salacia.*
Localities: N. Y., N. J., Texas.

579. **Antillocoris pallidus** (Uhl.)

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 187, *Pygaeus.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, viii, p. 497, 1901, *Pygaeus.*
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Pygaeus.*
Van Duzee, Can. Ent., xli, p. 373, 1909, *Pygaeus.*
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Pygaeus.*

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914, *Pygaeus.*
Parshley, Psyche, xxi, p. 146, 1914, *Cligenes.*
†*pilosulus* (Van Duzee), Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Salacia.*
†*pieturata* (Uhler), Proc. Zool. Soc. Lond. for 1894, p. 188, *Salacia.*
minutus (Bergroth), Revue d'Ent., xiv, p. 144, 1895, *Cligenes.*
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910, *Cligenes.*
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Cligenes.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md., Fla., Texas.

580. **Antillocoris punctatus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 406, 1893, *Salacia?*
Banks, Cat. Nearc. Hemip., p. 63, 1910.
Locality: Texas.

Genus **Rhyparochromus** Curt.
Orthotype *chiragra* (Fabr.)

Curtis, Br. Ent., xiii, pl. 612, 1836 (names *chiragra* type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (part).
Amyot and Serville, Hémip., p. 253, 1843.
Dallas, List of Hemip., ii, p. 560, 1852.
Stål, Of. Vet. Akad. Forh., xix, pp. 212, 220, 1862; xxix, No. 7, p. 52, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 215, 1882.
Megalonotus Fieber, Europ. Hemip., pp. 47, 181, 1861.

581. **Rhyparochromus sodalicus** (Uhl.)

Uhler, Wheeler's Surv. 100th Merid., v, p. 835, pl. 42, fig. 2, 1875, *Megalonotus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Megalonotus.*
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 75, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Localities: Texas, Utah, Nev., Calif., Ore.

582. **Rhyparochromus angustatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 74, 1910.
Van Duzee, Univ. Calif. Publ., Ent. Tech. Bul., i, p. 234, 1916.
Localities: Wash., Vanc. Isd., Calif.

583. (See No. 460½, **Lygaeosoma tripunctata**)

Genus **Plinthisus** Fieb.
Logotype *brevipennis* (Latr.)

Stephens, Syst. Cat. Brit. Ins., p. 343, 1829.
Fieber, Europ. Hemip., pp. 46, 177, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 217, 1862.
Douglas and Scott, Brit. Hemip., p. 211, 1865.
Thomson, Opusc. Ent., Fasc. ii, p. 186, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 53, 1872.
Horvath, Verh. Zool. Bot. Ges. Wien, xxvi, p. 724, 1876.
Puton, Synop. Heter. Fr., i, p. 41, 1878.
Horvath, Revue d'Ent., v, p. 215, 1886.
Oshanin, Kat. Palae. Hemip., p. 35, 1912. (Names *brevipennis* type.)
†*Lamprodema* Distant, Fauna Brit. Ind., Rhyn., ii, p. 71, 1903.

584. **Plinthisus americanus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 75, 1910.
Localities: Ont., N. H.

Genus **Peritrechus** Fieb.
Logotype *angusticollis* (Sahlbg.)

Fieber, Europ. Hemip., pp. 48, 183, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 218, 1862.
Douglas and Scott, Brit. Hemip., p. 187, 1865.
Thomson, Opusc. Ent., Fasc. ii, p. 191, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872.
Puton, Synop. Heter. Fr., i, p. 43, 1878.
Distant, Fauna Br. Ind., Rhyn., ii, p. 75, 1902.
Oshanin, Kat. Palae. Hemip., p. 36, 1912 (cites *angusticollis* as type).
Pasatus Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872. (Haplotype [*luniger* Schill.)
†*Ischnodemus* Provancher, Pet. Faune Ent. Can., iii, p. 75, 1886.

585. **Peritrechus fraternus** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 103, 1871.
Stål, Enum. Hemip., iv, p. 167, 1872.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 391, 1878.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
†*falicus* (Provancher), Pet. Faune Ent. Can., iii, p. 75, 1886, *Ischnodemus*.
Localities: Quebec, Ont., Mass., N. Y., N. J., Kan., Colo., N. Mex., Calif., Idaho.

586. **Peritrechus paludemaris** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 516, 1914.
Localities: N. Y., Md., Fla.

587. **Peritrechus tristis** Van D.

Van Duzee, Ent. News, xvii, p. 388, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Localities: Calif., Wash., Vanc. Isd.

Genus **Stignocoris** D. & S.
Logotype *rusticus* Fall.

Douglas and Scott, Brit. Hemip., p. 213, 1865 (n.n. for *Stygnus* Fieb.).
Oshanin, Verz. Palae. Hemip., i, p. 333, 1906.
Oshanin, Kat. Palae. Hemip., p. 35, 1912.
†*Aphanus* Dallas, List of Hemip., ii, p. 558, 1852.
‖*Stygnus* Fieber, Europ. Hemip., pp. 49, 186, 1861. (Type *rusticus* Fall.)
Thomson, Opusc. Ent., Fasc. ii, p. 188, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 53, 1872.
Puton, Synop. Heter. Fr., i, p. 43, 1878.
Stethatropis Fieber, Verh. Zool.-Bot. Ges. Wien, xx, p. 245, 1870. (Haplotype *incana* Fieb. = *rusticus* Fall.)

588. **Stignocoris rusticus** (Fall.)

Fallén, Monog. Cimic. Suec., p. 70, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 64, 1829, *Lygaeus.*
Schilling, Beit. z. Ent., i, p. 81, pl. 7, fig. 5, 1829, *Pachymerus.*
Hahn, Wanz. Ins., i, p. 223, fig. 116, 1831, *Pachymerus.*
Herrich-Schaeffer, Nomen. Ent., i, pp. 46, 80, 1835, *Aphanus.*
Dallas, List of Hemip., ii, p. 558, 1852, *Aphanus.*
Flor, Rhyn. Livl., i, p. 241, 1860, *Pachymerus.*
Fieber, Europ. Hemip., p. 186, 1861, *Stygnus.*
Douglas and Scott, Brit. Hemip., p. 214, pl. 7, fig. 9, 1865.
Puton, Synop. Heter. Fr., i, p. 53, 1878, *Stygnus.*
Reuter, Ent. Tidskr., ii, p. 91, 1881.
Saunders, Hemip. Heter. Br. Isds., p. 93, 1892, *Stygnus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908. [*Stethotropis.*
incana (Fieber), Ver. Zool.-Bot. Ges. Wien, xx, p. 245, pl. 5, fig. 3, 1870,
Localities: Quebec. (Palaearctic.)

TRIBE *BEOSINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 54, 1872, Div. *Beosaria.*
Stål, Enum. Hemip., iv, p. 158, 1874, Div. *Beosaria.*
Puton, Synop. Heter. Fr., i, p. 37, 1878.
Reuter, Revue d'Ent., iv, p. 217, 1885.
Aphanaria Distant, Fauna Br. Ind., Rhyn., ii, p. 78, 1903 (Division).
Oshanin, Verz. Palae. Hemip., i, p. 343, 1906.
Oshanin, Kat. Palae. Hemip., p. 36, 1912.

Genus **Trapezonotus** Fieb.
Logotype *agrestis* (Fall.) = *arenarius* (Linn.)

Fieber, Europ. Hemip., pp. 50, 190, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 220, 1862.
Douglas and Scott, Brit. Hemip., p. 190, 1865.
Thomson, Opusc. Ent., Fasc. ii, p. 197, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
Stål, Enum. Hemip., iv, pp. 158, 159, 1874 (section *aa*).
Puton, Synop. Heter. Fr., i, p. 57, 1878 (part).
Distant, Biol. Centr. Am., Heter., i, p. 216, 1882
Reuter, Revue d'Ent., iv, p. 218, 1885.
Oshanin, Kat. Palae. Hemip., p. 36, 1912 (names *arenarius* type).
Gnopherus Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872. (Haplo- [type *nigripes* Fieb. = *anorus* Flor.

589. **Trapezonotus arenarius** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758, *Cimex.*
Linnaeus, Fauna Suec., edn. Alt., p. 254, 1761, *Cimex.*
Houttuin, Natur. Hist., i, x, p. 368, 1765, *Cimex.*
Muller, Linne's Natursystem, v, p. 500, 1774, *Cimex.*
Fabricius, Syst. Ent., p. 723, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 218, 1778, *Cimex.*
Schrank, Enum. Inst. Austr., p. 286, 1781, *Cimex.*
Fabricius, Ent. Syst., iv, p. 170, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 233, 1803, *Lygaeus.*

Reuter, Rev. Synon., p. 380, No. 361, 1888, *Cimex*.
Oshanin, Verz. Palae. Hemip., i, p. 346, 1906.
Oshanin, Kat. Palae. Hemip., p. 37, 1912.
†*sylvaticus* (Panzer), Fauna Germ., xciii, fig. 16, 1805, *Lygaeus*.
agrestis (Fallén), Monog. Cimic. Suec., p. 66, 1807, *Lygaeus*.
Zetterstedt, Fauna Lapp., p. 478, 1828, *Lygaeus*.
Fallén, Hemip. Suec., Cimic., p. 55, 1829, *Lygaeus*.
Schilling, Beit. z. Ent., i, p. 70, 1829, *Pachymerus*.
Hahn, Wanz. Ins., i, p. 25, fig. 15, 1831, *Pachymerus*.
Herrich-Schaeffer, Nomen. Ent., i, pp. 45, 78, 1835, *Pachymerus*.
Zetterstedt, Ins. Lapp., column 263, 1840, *Lygaeus*.
Costa, Cimic. Reg. Neap., ii, p. 34, 1843, *Pachymerus*.
Dallas, List of Hemip., ii, p. 564, 1852, *Rhyparochromus*.
Flor, Rhyn. Livl., i, p. 265, 1860, *Pachymerus*.
Fieber, Europ. Hemip., p. 191, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 220, 1862; xxix, No. 7, p. 56, 1872.
Puton, Synop. Heter. Fr., i, p. 59, 1878.
Reuter, Rev. Synon., p. 196, No. 139, 1888.
Horvath, Revue d'Ent., xvii, p. 276, 1898.
psammobius Garbiglietti, Bul. Soc. Ent. Ital., i, p. 117, 1869.
Localities: Quebec, Mass. (Palaearctic.)

590. **Trapezonotus rufipes** Stål

Stål, Enum. Hemip., iv, p. 159, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910, *Sphragisticus*.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
Localities: N. J., Texas.

591. **Trapezonotus(?) caliginosus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 216, pl. 20, fig. 3, 1882.
Banks, Cat. Nearc. Hemip., p. 68, 1910.
Localities: "S. W. States" (Banks). (Cent. Am.)

Genus **Sphragisticus** Stål
Logotype *nebulosus* Fall.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
Stål, Enum. Hemip., iv, p. 158, 1874 (as subgenus).
Reuter, Revue d'Ent., iv, p. 218, 1885 (restricts to *nebulosus*).
Oshanin, Kat. Palae. Hemip., p. 37, 1912 (names *nebulosus* type).

592. **Sphragisticus nebulosus** (Fall.)

Fallén, Monog. Cimic. Suec., p. 65, 1807, *Lygaeus*.
Fallén, Hemip. Suec., Cimic., p. 54, 1829, *Lygaeus*.
Schilling, Beit. z. Ent., i, p. 69, pl. 6, fig. 5, 1829, *Pachymerus*.
Hahn, Wanz. Ins., i, p. 46, fig. 29, 1831, *Pachymerus*.
Herrich-Schaeffer, Nomen. Ent., i, pp. 45, 79, 1835, *Pachymerus*.
Zetterstedt, Ins. Lapp., column 263, 1840, *Lygaeus*.
Dallas, List of Hemip., ii, p. 564, 1852, *Rhyparochromus*.
Flor, Rhyn. Livl., i, p. 268, 1860, *Pachymerus*.
Fieber, Europ. Hemip., p. 190, 1861, *Trapezonotus*.
Stål, Of. Vet. Akad. Forh., xix, p. 220, 1862, *Trapezonotus*.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 55, 1872.
Stål, Enum. Hemip., iv, p. 159, 1874, *Trapezonotus.* [*Trapezonotus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876; iii, p. 412, 1877,
Uhler, Wheeler's Rept. Chief. Eng. for 1877, *Trapezonotus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 505, 1878, *Trapezonotus.*
Puton, Synop. Heter. Fr., i, p. 58, 1878, *Trapezonotus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 243, 1894, *Trapezonotus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 174, 1894, *Trapezonotus.*
Gillette and Baker, Hemip. Colo., p. 25, 1895, *Trapezonotus.*
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Parshley, Psyche, xxi, p. 146, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

fallax (Say), Heter. N. Harm., p. 17, 1832; Fitch reprint, p. 778; Compl. [Writ., i, p. 334, *Pamera.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872, *Rhyparo-*
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893, *Pamera.* [*chromus.*
Localities: Ont., Me., N. Y., N. J., Pa., Ill., Dak., Colo., Mont., Utah, Texas, N. Mex., Calif., Vanc. Isd., Br. Col. (Mexico, Palaearctic.)

Genus **Petissius** Dist.
Orthotype *assimilandus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 407, 1893.

593. **Petissius diversus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 407, pl. 35, fig. 22, 1893, *Petissius?*
Banks, Cat. Neare. Hemip., p. 67, 1910.
Localities: Fla., Texas. (Neotropical.)

Genus **Aphanus** Lap.
Orthotype *rolandri* (Linn.)

Laporte, Essai Classif. Syst. Hemip., p. 35, 1832 (n.n. for *Pachymerus*).
Brullé, Hist. Nat. des Ins., ix, p. 387, 1835.
Spinola, Essai sur les Hémip., p. 238, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 132, 1840.
Horvath, Ann. Mus. Natl. Hung., vi, p. 562, 1908.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 122, 1910 (names *pedester* pseudotype).

‖*Pachymerus* Lepeletier and Serville, Encyc. Méth., x, p. 322, 1825 (Logo- [type *rolandri* Linn.).
Latreille, Fam. Nat. Règne Anim., p. 422, 1825 (French *Pachymere*).
Latreille, *in* Cuvier, Règne Animal, edn. 2, v, p. 198, 1829 (French
Schilling, Beit. z. Ent., i, pp. 37, 64, 1829. [*Pachymere*).
Hahn, Wanz. Ins., i, p. 37, 1831.
Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 78, 1835.
Burmeister, Handb. d. Ent., ii, p. 293, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836, *Pachy-*
Spinola, Tavola Sinot., p. 37, 1850. [*mera.*
Flor, Rhyn. Livl., i, pp. 224, 236, 1860.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 57, 1872.
Stål, Enum. Hemip., iv, p. 160, 1874.
Puton, Synop. Heter. Fr., i, p. 58, 1878.

Pamera Say, Heter. N. Harm., p. 15, 1832; Fitch reprint, p. 776; Compl. [Writ., i, p. 332 (n.n. for *Pachymerus* Lep.).
Kirkaldy, Entomol., xxxix, p. 256, 1906.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 122, 1910 (names *pedester*
Amyctus Gistel, Naturges. des Thierr., p. x, 1848. [pseudotype).
†*Calyptonotus* Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 57, 1872 (sub-
Reuter, Revue d'Ent., iv, pp. 218, 221, 1885. [genus).
Oshanin, Verz. Palae. Hemip., i, p. 348, 1906.
Kirkaldy, Entomol., xxxix, p. 256, 1906 (names *rolandri* type).
Oshanin, Kat. Palae. Hemip., p. 37, 1912. [*illuminatus* Dist.).
‖*Dorachosa* Distant, Biol. Centr. Am., Heter., i, p. 409, 1893 (Haplotype
Delochilocoris Bergroth, Revue d'Ent., xii, p. 154, 1893 (n.n. for *Dorachosa*).

594. **Aphanus umbrosus** (Dist.)

Distant, Biol. Cent. Am., Heter., i, p. 409, 1893 (var.? of *Dorachosa illumin-*
Bergroth, Revue d'Ent., xii, p. 154, 1893, *Delochilocoris.* [*atus* Dist.).
Horvath, Ann. Mus. Natl. Hung., vi, p. 561, 1908 (a species distinct).
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
†*carbonaria* (Uhler), Check List, p. 15, 1886, *Microtoma.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Microtoma.*
†*atrata* (Van Duzee), Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Microtoma.*
†*illuminatus* (Gillette and Baker), Hemip. Colo., p. 26, 1895, *Rhyparochromus.*
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Delochilocoris.*
Localities: Ont. Mass., N. Y., N. J., Pa., D. C., Fla., Kan., Colo., Texas, Ariz., Calif.

595. **Aphanus compactus** (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904, *Rhyparochromus.*
Locality: N. Mex.

Genus **Uhleriola** Horv.

Orthotype *floralis* (Uhl.)

Horvath, Ann. Mus. Natl. Hung., vi, p. 562, 1908.

596. **Uhleriola floralis** (Uhl.)

Uhler, Hemip. Colo., p. 26, 1895, *Rhyparochromus.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, 178, 1906, *Rhyparochromus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 563, 1908.
Localities: Colo., Ariz.

TRIBE *GONIANOTINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 58, 1872, Div. *Gonianotaria.*
Puton, Synop. Heter. Fr., i, p. 37, 1878, Div. *Gonianotaria.*
Oshanin, Verz. Palae. Hemip., i, p. 364, 1906, Div. *Gonianotaria.*
Oshanin, Kat. Palae. Hemip., p. 38, 1912, Div. *Gonianotaria.*

Genus **Emblethis** Fieb.

Logotype *platychilus* Fieb. = *verbasci* (Fabr.)

Fieber, Europ. Hemip., pp. 51, 197, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 222, 1862 (as subgen. of *Gonianotus* Fieb.)
Thompson, Opusc. Ent., ii, p. 195, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872.
Puton, Synop. Heter. Fr., i ,p. 66, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 77, 1886.
Oshanin, Kat. Palae. Hemip., p. 38, 1912 (names *verbasci* type).

597. **Emblethis vicarius** Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 563, 1908.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.
Smith, Cat. Ins N. J., edn. 3, p. 144, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 517, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Bueno, Psyche, xxii, p. 16, 1915.
†*arenarius* Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 407, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876; iii, p. 412, 1877.
Uhler, Check List, p. 15, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 77, 1886.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 362, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.
Gillette and Baker, Hemip. Colo., p. 25, 1895. [*Gonianotus.*
†*marginepunctatus* (Uhler), Proc. Bost. Soc. Nat. Hist., xix, p. 392, 1878, Distant, Biol. Centr. Am., Heter., i, p. 218, 1882, *Gonianotus.*
Emblethis sp., Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
†*griseus* Bueno, Can. Ent., xli, p. 295, 1909.
Localities: Mass., N. Y., N. J., Ga., Fla., Ill., N. D., Wyom., Mont., Colo., Utah, Nev., Calif., Vanc. Isd. (Mexico.)

TRIBE *LETHIINI* (Stål)

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872, Div. *Lethaearia.*
Stål, Enum. Hemip., iv, p. 163, 1874, Div. *Lethaeria.*
Oshanin, Verz. Palae. Hemip., i, p. 370, 1906, Div. *Lethaeria.*
Oshanin, Kat. Palae. Hemip., p. 39, 1912, Tribe *Lethaeria.*
Drymaria Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 59, 1872 (Division).
Puton, Synop. Heter. Fr., i, p. 38, 1878 (Division).

Genus Drymus Fieb.
Logotype *pilipes* Fieb.

Fieber, Europ. Hemip., pp. 46, 178, 1861.
Stål, Of. Vet. Akad. Forh., xix, p. 211, 1862.
Douglas and Scott, Brit. Hemip., p. 196, 1865.
Thomson, Opusc. Ent., ii, p. 199, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.
Puton, Synop. Heter. Fr., i, p. 69, 1878.
Distant, Fauna Br. Ind., Rhyn., ii, p. 92, 1903. (Names *pilipes* type.)
Lampronotus Douglas and Scott, Ent. Mo. Mag., iv, p. 214, 1868.
Lamprolpax Douglas and Scott, Ent. Mo. Mag., iv, p. 265, 1868 (n.n. for *Drymocoris* Jakowlef, Troudy Ent. Ross., ix, p. 223, 1876. [*Lampronotus*).

598. **Drymus unus** (Say)

Say, Heter N. Harm., p. 16, 1832; Fitch reprint, p. 778; Compl. Writ., i, p. 333,
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876, *Megalonotus.* [*Pamera.*
Uhler, Check List, p. 15, 1886, *Megalonotus.*

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894, *Megalonotus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894, *Megalonotus.*
Gillette and Baker, Hemip. Colo., p. 24, 1895, *Pamera.*
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904, *Rhyparochromus.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908, *Rhaparochromus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 564, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 144, 1910.
Parshley, Psyche, xxi, p. 146, 1914.
Localities: Me., N. Y., N. J., Pa., Md., N. C., Ind., Colo., Texas.

599. **Drymus crassus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 76, 1910.
Localities: N. H., N. J., Pa., N. C.

Genus **Eremocoris** Fieb.
Logotype *erraticus* (Fabr.)

Fieber, Europ. Hemip., pp. 49, 187, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 219, 1862.
Douglas and Scott, Brit. Hemip., p. 176, 1865.
Thomson, Opusc. Ent., Fasc. ii, p. 200, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.
Stål, Enum. Hemip., iv, pp. 163, 164, 1874.
Puton, Synop. Heter. Fr., i, p. 63, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 218, 1882.
Horvath, Revue d'Ent., ii, p. 1, 1883 (monograph).
Provancher, Pet. Faune Ent. Can., iii, p. 80, 1886.
Distant, Fauna Br. Ind., Rhyn., v, p. 84, 1910 (names *erraticus* type).

600. **Eremocoris ferus** (Say)

Say, Heter. N. Harm., p. 16, 1832; Fitch reprint, p. 778; Compl. Writ., i, p. [333, *Pamera.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 103, 1871.
Stål, Enum. Hemip., iv, p. 164, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 391, 1878.
Horvath, Revue d'Ent., ii, p. 9, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 81, 1886.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 244, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
Gillette and Baker, Hemip. Colo., p. 26, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.
Distant, Fauna Br. Ind., Rhyn., v, p. 84, 1910.
Parshley, Psyche, xxi, p. 146, 1914.
borealis (Dallas), List of Hemip., ii, p. 565, 1852, *Rhyparochromus.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md., N. C., S. C., Ill., Colo., Mont., Utah, Texas, Calif.(?).

601. **Eremocoris inquilinus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 10, 1914.
Locality: Calif.

602. **Eremocoris obscurus** Van D.

Van Duzee, Ent. News, xvii, p. 388, 1906.
Localities: Vanc. Isd., Calif.

603. **Eremocoris wrighti** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 9, 1914.
Locality: Calif.

Genus **Xestocoris** Van D.
Haplotype *nitens* Van D.

Van Duzee, Ent. News, xvii, p. 389, 1906.
Van Duzee, Can. Ent., xli, p. 384, 1909 (citing *nitens* as type).

604. **Xestocoris nitens** Van D.

Van Duzee, Ent. News, xvii, p. 390, 1906.
Parshley, Psyche, xxi, p. 146, 1914.
?†*collina* (Banks), Cat. Nearc. Hemip., p. 67, 1910, *Rhaptus*.
Localities: Me., N. Y.

Genus **Gastrodes** Westw.
Logotype *abietis* Linn.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (n.n. for *Platy-* [*gaster* Schill., names *abietis* type.)
Douglas and Scott, Brit. Hemip., p. 165, 1865.
Puton, Synop. Heter. Fr., i, p. 69, 1878.
Oshanin, Verz. Palae. Hemip., i, p. 386, 1906.
Oshanin, Kat. Palae. Hemip., p. 40, 1912.
‖*Platygaster* Schilling, Beit. z. Ent., i, p. 82, 1829.
Herrich–Schaeffer, Nomen. Ent., i, pp. 36, 45, 1835.
Dallas, List of Hemip., ii, p. 581, 1852.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.
Stål, Enum. Hemip., iv, p. 164, 1874.
Provancher, Pet. Faune Ent. Can., iii, p. 205, 1889.
Ancylopus Flor, Rhyn. Livl., i, p. 232, 1860 (n.n. for *Platygaster*).
Homalodema Fieber, Europ. Hemip., pp. 49, 187, 1861 (n.n. for *Platy-*
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 218, 1862. [*gaster*).

605. **Gastrodes ferrugineus** (Linn.)

?Scopoli, Ent. Carn., p. 130, 1863, *Cimex*.
Linnaeus, Syst. Nat., edn. 12, p. 730, 1867, *Cimex*.
Muller, Linne's Natursys., v, p. 501, 1774, *Cimex*.
Goeze, Ent. Beytr., ii, p. 220, 1778, *Cimex*.
Turton edn., Linnaeus, Syst. Nat., edn. 13, ii, pt. 1, p. 671, 1806, *Cimex*.
Schilling, Beit. z. Ent., i, p. 82, pl. 7, fig. 7, 1829, *Platygaster*.
Hahn, Wanz. Ins., iii, p. 34, fig. 254, 1835, *Platygaster*.
Amyot and Serville, Hémip., p. 251, 1843, *Platygaster*.
Dallas, List of Hemip., ii, p. 581, 1852, *Platygaster*.
Flor, Rhyn. Livl., i, p. 235, 1860, *Pachymerus* subg. *Ancylopus*.
Fieber, Europ. Hemip., p. 187, 1861, *Homalodema*.
Stål, Of. Vet. Akad. Forh., xix, p. 219, 1862, *Homalodema*.
Douglas and Scott, Brit. Hemip., p. 168, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872, *Platygaster*.
Puton, Synop. Heter. Fr., i, p. 80, 1878.

Saunders, Hemip. Heter. Br. Isds., p. 118, pl. 10, fig. 10, 1892.
Oshanin, Verz. Palae. Hemip., i, p. 387, 1906.
Banks, Cat. Nearc. Hemip., p. 64, 1910.
grossipes (De Geer), Memoirs, iii, p. 308, pl. 15, figs. 20, 21, 1773, *Cimex.*
Reuter, Rev. Synon., p. 213, No. 163, 1888.
†*abietis* (Retzius), Genera Spec. Ins., p. 88, 1783, *Cimex.*
Schrank, Fauna Boic., p. 84, 1801, *Cimex.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 218, 1804, *Lygaeus.*
Fallén, Monog. Cimic. Suec., p. 68, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 61, 1829, *Lygaeus.*
Burmeister, Handb. d. Ent., ii, p. 295, 1835, *Pachymerus.*
Zetterstedt, Ins. Lapp., column 264, 1840, *Lygaeus.*
Localities: "N. States" (Banks).

606. **Gastrodes pacificus** (Prov.)
Provancher, Pet. Faune Ent. Can., iii, p. 205, 1889, *Platygaster.*
Locality: Vanc. Isd.

Genus **Cistalia** Stål
Logotype *signoreti* Guer.

Stål, Enum. Hemip., iv, pp. 164, 165, 1874.

607. **Cistalia signoreti** (Guer.)
Guerin, *in* Sagra, Hist. de Cuba, Ins., p. 296, 1857, *Lygaeus.*
Stål, Enum. Hemip., iv, p. 165, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
Localities: Texas, Nev., Calif. (West Indies.)

Genus **Cryphula** Stål
Haplotype *parallelogramma* Stål

Stål, Enum. Hemip., iv, pp. 164, 165, 1874.

608. **Cryphula parallelogramma** Stål
Stål, Enum. Hemip., iv, p. 165, 1874.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 311, 1876.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 354, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.
Localities: N. Y., N. J., Kan., Texas, N. Mex.

Genus **Esuris** Stål
Haplotype *tigrina* Stål

Stål, Enum. Hemip., iv, pp. 164, 166, 1874.
Distant, Biol. Centr. Am., Heter., i, p. 410, 1893.
Barber, Jl. N. Y. Ent. Soc., xix, p. 27, 1911.

609. **Esuris castanea** Barb.
Barber, Jl. N. Y. Ent. Soc., xix, p. 27, 1911.
Locality: Ariz.

Genus **Scolopostethus** Fieb.
Logotype *cognatus* Fieb.

Fieber, Europ. Hemip., pp. 49, 188, 1861.
Stål, Of. Vet. Akad. Forh., xix, pp. 211, 219, 1862.
Douglas and Scott, Brit. Hemip., p. 181, 1865.
Thomson, Opusc. Ent., Fasc. ii, p. 200, 1870.

Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 60, 1872.
Puton, Synop. Heter. Fr., i, p. 69, 1878.
Horvath, Ent. Mo. Mag., xxvii, p. 116, 1891.
Horvath, Revue d'Ent., xi, p. 253, 1892; xii, p. 238, 1893.
Distant, Fauna Br. Ind., Rhyn., ii, p. 92, 1903 (names *cognatus* Fieb. type).
Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911.
Oshanin, Kat. Palae. Hemip., p. 39, 1912 (names *pictus* Schill. type).
Bueno, Ent. News, xxviii, p. 65, 1917.

?Tritomacera Costa, Ann. Soc. Ent. Fr., Ser. 1, x, p. 296, 1841. (Type [*aphanoides* Costa.)

Manatanus Distant, Ann. Mag. Nat. Hist., Ser. 8, iii, p. 494, 1909. (Hap-
Distant, Fauna Br. Ind., Rhyn., v, p. 86, 1910. [lotype *montanus* Dist.)

610. **Scolopostethus thomsoni** Reut.

Reuter, Ann. Soc. Ent. Fr., Ser. 5, iv, p. 562, 1874.
Horvath, Ent. Mo. Mag., xxvii, p. 118, 1891.
Horvath, Revue d. Ent., xi, p. 254, 1892.
Van Duzee, Ent. News, v, p. 108, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 175, 1894.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 505, 1900.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 178, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 234, 1916.

†*decoratus* (Thomson), Opusc. Ent., Fasc. ii, p. 201, 1870, *Lygaeus.*
adjunctus Horvath, Monog. Lygaeid., p. 87, 1875.
Puton, Synop. Heter. Fr., i, p. 75, 1878.
Reuter, Ent. Tidskr., ii, p. 82, 1881.
neglectus Edwards, Ent. Mo. Mag., xxv, p. 279, 1889 (as var.).
Saunders, Hemip. Heter. Br. Isds., p. 112, 1892.
†*affinis* Van Duzee, Psyche, v, p. 240, 1889.
Localities: N. Y., N. J., Colo., Ariz., Calif., Alaska.

611. **Scolopostethus atlanticus** Horv.

Horvath, Revue d'Ent., xii, p. 239, 1893.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 30, 1910.
Localities: N. H., Mass., N. Y., N. J., Wash., Vanc. Isd.

612. **Scolopostethus diffidens** Horv.

Horvath, Revue d'Ent., xii, p. 240, 1893.
Smith, Cat. Ins. N. J., edn. 3, p. 145, 1910.
Parshley, Psyche, xxi, p. 146, 1914.

†*nodosus* (Provancher), Pet. Faune Ent. Can., iii, p. 77, 1886, *Plociomerus.*
Localities: Quebec, Me., Mass., N. J., Idaho, Calif.

613. **Scolopostethus tropicus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 218, pl. 20, fig. 7, 1882, *Eremocoris.*
?Gillette and Baker, Hemip. Colo., p. 26, 1895, *Eremocoris* (probably is *thom-*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 10, 1914. [*soni*).
Localities: Calif. (Guatemala).

Rhyparochromus armatipes Walker = **Dieuches armipes** Fabr. (Not American.)

PHALYNX *PYRRHOCORIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 76, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 31, 49, 1912.

Family **PYRRHOCORIDAE** Fieb.

Fieber, Europ. Hemip., pp. 25, 43, 1860; p. 162, 1861.
Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Pyrrhocorida.*
Stål, Berl. Ent. Zeit., vii, p. 390, 1863, *Pyrrhocorida.*
Stål, Hemip. Afr., iii, p. 1, 1865, *Pyrrhocorida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 130, 1868, *Pyrrhocorida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 665, 1870, *Pyrrhocorina.*
Stål, Enum. Hemip., i, p. 90, 1870, *Pyrrhocorina.* [the *Lygaeidae*).
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872, *Pyrrhocorina* (subfam. of
Stål, Enum. Hemip., iv, p. 167, 1874, *Pyrrhocorina* (subfam. of the *Lygaeidae*).
Distant, Biol. Centr. Am., Heter., i, p. 220, 1882, *Pyrrhocoridae.*
Uhler, Stand. Nat. Hist., ii, p. 287, 1884, *Pyrrhocoridae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 31, 1886, Tribe *Pyrrhocorini.*
Uhler, Check List, p. 16, 1886, *Pyrrhocoridae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 237, 1894, *Pyrrhocoridae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 94, 1903, *Pyrrhocoridae.*
Oshanin, Verz. Palae. Hemip., i, p. 387, 1906, *Pyrrhocorina* (subfam. of the
Kirkaldy, Can. Ent., xl, p. 360, 1908, *Pyrrhocoridae.* [*Lygaeidae*).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 83, 1910, *Pyrrhocoridae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 58, 1912,
Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Pyrrhocoridae.* [*Pyrrhocoridae.*

Cecigenes Amyot and Serville, Hémip., pp. xxxviii, 265, 1843.
Dohrn, Cat. Hemip., p. 36, 1859, *Cecigenae.*
Flor, Rhyn. Livl., i, p. 209, 1860, *Coecigena.*
Douglas and Scott, Brit. Hemip., pp. 19, 163, 1865, *Coecigenina.*

Astemmoideae Spinola, Tavola Sinot., p. 38, 1850.

Subfamily **EURYOPHTHALMINAE** Van D.

Van Duzee, Check List Hemip., p. 24, 1916.

Largides Amyot and Serville, Hémip., pp. xxxviii, 273, 1843.
Dohrn, Cat. Hemip., p. 37, 1859, *Largidae.*
Stål, Hemip. Afr., iii, p. 1, 1865, *Largida.*
Stål, Enum. Hemip., i, p. 90, 1870, *Largina.*
Walker, Cat. Heter., v, pp. 163, 165, 1872, *Largidae.*
Berg, Hemip. Argent., p. 112, 1879, *Largina.*
Distant, Biol. Centr. Am., Heter., i, p. 220, 1882, *Larginae.*
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 237, 1894, *Largidae.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 94, 1903, *Larginae.*
Oshanin, Verz. Palae. Hemip., i, p. 392, 1906, Div. *Largaria.*
Banks, Cat. Neare. Hemip., p. 69, 1910, *Larginae.*
Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Larginae.*

Genus **Euryophthalmus** Lap.
Orthotype *puncticollis* Lap. = *lunaris* (Gmel.)

Laporte, Essai Classif. Syst. Hémip., p. 38, 1832.
Kirkaldy, Entomol. xxxiv, pp. 176, 219, 1801.
Van Duzee, Check List Hemip., p. 24, 1916.

¶*Largus* Hahn, Wanz. Ins., i, p. 13, 1831.
Largus Burmeister, Handb. d. Ent., ii, p. 281, 1835.

Spinola, Essai sur les Hémip., p. 179, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., iv, p. 127, 1840.
Amyot and Serville, Hémip., p. 273, 1843.
Herrich-Schaeffer, Wanz. Ins., vii, p. 6, 1844.
Spinola, Tavola Sinot., p. 39, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 174, 180, 1853.
Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.
Stål, Hemip. Afr., iii, p. 1, 1865.
Stål, Enum. Hemip., i, pp. 90, 91, 1870.
Walker, Cat. Heter., v, pp. 164, 165, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 220, 1882.

Acinocoris Hahn, Wanz. Ins., ii, p. 113, 1834. (Haplotype *calidus* Fabr. [=*lunaris* Gmel.)
Brullé, Hist. des Ins., ix, p. 384, 1835 (cites *calidus* as type).
Blanchard, Hist. des Ins., Hemip., p. 123, 1840.

Astemma Brullé, Hist. des Ins., ix, p. 383, 1835, part. [*abdominalis* Sign.).

Lecadra Signoret, Ann. Soc. Ent. Fr., Ser. 4, ii, p. 582, 1862 (type

614. **Euryophthalmus lunaris** Gmel.

Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2178, 1788, *Cimex.*

‖*lunatus* Fabricius, Mantissa Ins., ii, p. 302, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 167, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 232, 1803, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 81, 1868, *Acinocoris.*
Stål, Enum. Hemip., i, p. 92, 1870, *Largus.*
Walker, Cat. Heter., vi, p. 37, 1873, *Acinocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Acinocoris.*
Berg, Hemip. Argent., p. 112, 1879, *Largus.*
Distant, Biol. Centr. Am., Heter., i, p. 221, 1882, *Largus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894, *Acinocoris.*

calidus Fabricius, Syst. Rhyng., p. 230, 1803, *Lygaeus.*
Hahn, Wanz. Ins., ii, p. 114, fig. 194, 1834, *Acinocoris.*
Blanchard, Hist. des Ins., Hemip., p. 128, 1840, *Acinocoris.*

lunulatus Fabricius, Syst. Rhyng., emend, at end of vol., 1803, *Lygaeus.*
Burmeister, Handb. d. Ent., ii, p. 282, 1835, *Largus.*
Blanchard, Hist. des Ins., Hemip., p. 127, 1840, *Largus.*

interruptus Herrich-Schaeffer, Wanz. Ins., ix, p. 181, fig. 978, 1853, *Largus.*

Localities: Calif. (Neotropical.)

615. **Euryophthalmus cinctus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vii, p. 6, fig. 683, 1844, *Largus.*
Uhler, Proc. Acad. Nat. Sci. Phila., xii, p. 230, 1861, *Largus.*
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus.*
Stål, Enum. Hemip., i, p. 94, 1870, *Largus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Largus.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Largus.*
Distant, Biol. Centr. Am., Heter., i, pp. 223, 1882, and 412, 1893, pl. 20, figs.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894, *Largus.* [16–19, *Largus.*
Gillette and Baker, Hemip. Colo., p. 28, 1895, *Largus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Largus.*
Barber, Brookl. Inst., Sci. Bul., p. 277, 1906, *Largus.*

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg), *Largus*.
succinctus var. a (Say), Heter. N. Harm., p. 20, 1832; Fitch reprint, p. [p. 783, *Capsus*.
Say, Compl. Writ., i, p. 338, *Capsus*.
varians Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.
Localities: Colo., Texas, N. Mex., Ariz., Nev., Calif., Ore. (Neotropical.)

616. **Euryophthalmus convivus** (Stål)

Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861, *Largus*.
Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.
Distant, Biol. Centr. Am., Heter., i, p. 222, pl. 20, figs. 13, 14, 1882, *Largus*.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 247, 1894, *Largus*.
Distant, Ann. Mag. Nat. Hist., Ser. 7, ix, p. 45, 1902, *Largus*.
Barber, Brookl. Inst., Sci. Bul., i, p. 277, 1906, *Largus*.
Bueno, Ent. News, xxiv, p. 22, 1913, *Largus*.
obtusus (Walker), Cat. Heter., vi, p. 33, 1873, *Largus*.
†*succinctus* Osborn, Trans. Ia. Acad. Sci., i, p. 120, 1893, *Largus*.
†*anchorago* Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 124, 1910, *Stiretrus* (young).
†*cinctus* Van D., Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914, *Largus*.
Localities: Texas, Calif. (Mexico.)

617. **Euryophthalmus succinctus** (Linn.)

Linnaeus, Cent. Ins. Rar., p. 17, 1763, *Cimex*.
Linnaeus, Syst. Nat., edn. 12, 1, pt. 2, p. 727, 1767, *Cimex*.
Fabricius, Syst. Ent., p. 723, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 214, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 369, 1781, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 303, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2175, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 170, 1794, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 233, 1803, *Lygaeus*.
Burmeister, Handb. d. Ent., ii, p. 283, 1835, *Largus*.
Herrich-Schaeffer, Wanz. Ins., vi, p. 78, fig. 648, 1842, *Largus*.
Stål, Hemip. Fabr., i, p. 80, 1868, *Largus*.
Stål, Enum. Hemip., i, p. 94, 1870, *Largus*.
Uhler, Hayden's Surv. Terr. for 1871, p. 408, 1872, *Largus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876, *Largus*.
Uhler, Stand. Nat. Hist., ii, p. 288, 1884, *Largus*.
Lintner, 2d Rept. N. Y. St. Ent., p. 164, *Largus*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 172, 1909, *Largus*.
Morrill, U. S. Dept. Agr., Bur. Ent. Bul., 86, p. 94, 1910, *Largus*.
Smith, Cat. Ins. N. J., edn. 3, p. 140, 1910, *Largus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914, *Largus*.
rubrocinctus (De Geer), Mémoires, iii, p. 339, pl. 34, fig. 19, 1773, *Cimex*.
Localities: N. J., Pa., Md., "Carolina," Va., Ga., Fla., Texas, Colo., Ariz.

618. **Euryophthalmus davisi** (Barb.)

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Largus*.
Locality: Fla.

619. **Euryophthalmus bipustulatus** (Stål)

Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861, *Largus*.
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus*.

Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.
Distant, Biol. Centr. Am., Heter., i, p. 223, pl. 20, figs. 20, 21, 1882, *Largus*.
socius (Stål), Of. Vet. Akad. Forh., xviii, p. 197, 1861, *Largus*.
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Largus*.
Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.
pulverulentus (Walker), Cat. Heter., vi, p. 33, 1873, *Largus*.
Localities: Texas. (Mexico.)

620. **Euryophthalmus sellatus** (Guer.)

Guerin, *in* Sagra, Hist. de Cuba, Ins., p. 401, 1857, *Lygaeus*.
Stål, Enum. Hemip., i, p. 95, 1870, *Largus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914, *Largus*.
Localities: Fla. (West Indies.)

Genus **Stenomacra** Stål
Logotype *marginella* H. S.

Stål, Enum. Hemip., i, pp. 90, 97, 1870.
Walker, Cat. Heter., v, p. 165, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 226, 1883.

621. **Stenomacra marginella** (H. S.)

Herrich-Schaeffer, Wanz. Ins., ix, p. 182, 1853, *Largus*.
Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861, *Theraneis*.
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Theraneis*.
Stål, Enum. Hemip., i, p. 98, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 226, pl. 20, fig. 23, 1883.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
parallelus Herrich-Schaeffer, Wanz. Ins., ix, pl. 217, fig. 982, 1853, *Largus*.
Localities: Ariz., Calif. (Neotropical.)

622. **Stenomacra cliens** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862, *Theraneis*.
Stål, Enum. Hemip., i, p. 98, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 226, pl. 20, fig. 22, 1883.
Bergroth, Revue d'Ent., xi, p. 262, 1892.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
sallei Fallou, Revue d'Ent., x, p. 8, 1891.
†*marginella* Barber, Jl. N. Y. Ent. Soc., xviii, p. 37, 1910.
Localities: N. Mex., Ariz.

Genus **Arhaphe** H. S.
Haplotype *carolina* H. S.

Herrich-Schaeffer, Wanz. Ins., ix, pp. 175, 183, 1853.
Stål, Of. Vet. Akad. Forh., xviii, p. 195, 1861.
Stål, Hemip. Afr., iii, p. 2, 1865.
Stål, Enum. Hemip., i, pp. 90, 98, 1870.
Walker, Cat. Heter., v, pp. 164, 165, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 226, 1883.
§*Araphe* Uhler, Hayden's Surv. Terr. for 1870, p. 471, 1872.
Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911. [Dist.).
Japetus Distant, Biol. Centr. Am., Heter., i, p. 227, 1883 (type *sphaeroides*

623. **Arhaphe carolina** H. S.

Herrich-Schaeffer, Wanz. Ins., ix, p. 183, fig. 968, 1853.
Stål, Enum. Hemip., i, p. 98, 1870.
Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
Distant, Biol. Centr. Am., Heter., i, p. 227, 1883.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911 (*Araphe*).
Localities: "Carolina," Ga., Ariz.

624. **Arhaphe cicindeloides** Walk.

Walker, Cat. Heter., vi, p. 36, 1873.
Distant, Biol. Centr. Am., Heter., i, p. 227, pl. 21, fig. 2, 1883.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910; xix, p. 28, 1911.
Localities: Ariz. (Mexico.)

625. **Arhaphe mimetica** Barb.

Barber, Jl. N. Y. Ent. Soc., xix, p. 28, 1911.
Locality: Ariz.

Subfamily PYRRHOCORINAE (A. & S.)

Amyot and Serville, Hémip., pp. xxxviii, 265, 1843, Groupe *Pyrrhocorides*.
Dohrn, Cat. Hemip., p. 36, 1859, *Pyrrhocorida*.
Stål, Hemip. Afr., iii, pp. 1, 3, 1865, *Pyrrhocorida*. (Key.)
Douglas and Scott, Brit. Hemip., pp. 20, 163, 1865, *Pyrrhocoridae*.
Stål, Enum. Hemip., i, p. 101, 1870, *Pyrrhocorina*. (Key.)
Walker, Cat. Heter., v, p. 163, 1872, *Pyrrhocoridae*. (Key.)
Berg, Hemip. Argent., p. 114, 1879, *Pyrrhocorina*.
Distant, Biol. Centr. Am., Heter., i, p. 227, 1883, *Pyrrhocorinae*.
Lethierry and Severin, Cat. Génl. Hémip., ii, p. 243, 1894, *Pyrrhocoridae*.
Distant, Fauna Br. Ind., Rhyn., ii, p. 99, 1903, *Pyrrhocorinae*.
Oshanin, Verz. Palae. Hemip., i, p. 388, 1906, Div. *Pyrrhocoraria*.
Banks, Cat. Neare. Hemip., p. 70, 1910, *Pyrrhocorinae*.
Oshanin, Kat. Palae. Hemip., p. 26, 1912, *Pyrrhocorinae*.

Genus **Pyrrhocoris** Fall.
Orthotype *apterus* Linn.

Fallén, Nova Meth. Hemip., p. 9, 1814.
Latreille, Fam. Nat. Reg. Anim., p. 421, 1825.
Fallén, Hemip. Suec., Cimic., p. 45, 1829.
Curtis, Brit. Ent., x, pl. 465, 1833.
Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 43, 1835.
Burmeister, Handb. d. Ent., ii, p. 283, 1835 (part).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
Amyot and Serville, Hemip., p. 267, 1843.
Flor, Rhyn. Livl., i, p. 210, 1860.
Fieber, Europ. Hemip., pp. 43, 162, 1861 (part).
Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861.
Stål, Hemip. Afr., iii, p. 4, 1865.
Douglas and Scott, Brit. Hemip., p. 163, 1865.
Stål, Enum. Hemip., i, pp. 103, 115, 1870.
Stål, Of. Vet. Akad. Forh., xxix, No. 7, p. 62, 1872.

Walker, Cat. Heter., v, pp. 165, 167, 1872 (part).
Distant, Biol. Centr. Am., Heter., i, p. 228, 1883.
Distant, Fauna Br. Ind., Rhyn., ii, p. 116, 1903. [Linn.)
‖*Platynotus* Schilling, Beit. z. Ent., i, pp. 37, 57, 1829. (Haplotype *apterus* Hahn, Wanz. Ins., ii, p. 9, 1834. [*Platynotus* Schill.).
Meganotus Laporte, Essai Classif. Syst. Hémip., p. 38, 1832 (n.n. for †*Phytocorisa* Laporte, Essai Classif. Syst. Hémip., p. 83, 1832 (for *apterus*).
†*Lygaeus* Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832,
†*Astemma* Spinola, Essai sur les Hémip., p. 178, 1837 (1840). [(for *apterus*).
Spinola, Tavola Sinot., p. 39, 1850.
Kirkaldy, Can. Ent., xli, p. 31, 1909 (names *apterus* pseudotype).
‖*Platycoris* Gistel, Naturges. des Tierr., p. 149, 1848 (type *apterus*).

626. **Pyrrhocoris apterus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 447, 1758, *Cimex*.
Poda, Ins. Graec., p. 58, 1861, *Cimex*.
Geoffroy, Hist. Abreg. des Ins., i, p. 440, 1762, *Cimex* (No. 11).
Scopoli, Ent. Carn., p. 127, 1763, *Cimex*.
Linnaeus, Syst. Nat., edn. 12, i, p. 727, 1767, *Cimex*.
De Geer, Mémoires, iii, p. 276, 1773, *Cimex*.
Fabricius, Syst. Ent., p. 721, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 213, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 366, 1781, *Cimex*.
Schrank, Ins. Austr., p. 281, 1781, *Cimex*.
Retzius, Genera Spec. Ins., p. 86, 1783, *Cimex*.
Fourcroy, Ent. Paris., p. 198, 1785, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 301, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., edn. i, pt. 4, p. 2172, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 161, 1794, *Lygaeus*.
Schrank, Fauna Boic., ii, p. 81, 1801, *Cimex*.
Latreille, Hist. Nat. Crust. Ins., iii, p. 244, 1801, *Lygaeus*.
Wolff, Icon. Cimic., iii, p. 108, fig. 102, 1802, *Lygaeus*.
Walckenaer, Fauna Paris., ii, p. 346, 1802, *Ligaeus*.
Fabricius, Syst. Rhyng., p. 227, 1803, *Lygaeus*.
Latreille, Genera Crust. Ins., iii, p. 122, 1807, *Lygaeus*.
Latreille, Consid. Génl., p. 433, 1810 (as type of *Lygaeus*).
Fallén, Spec. Nova Hemip., Disp., p. 4, 1814 (as type of *Lygaeus*).
Lamarck, Hist. Nat. Anim. s. Verteb., iii, p. 496, 1816, *Lygaeus*.
Latreille, Fam. Nat. Règ. Anim., p. 421, 1825.
Fallén, Suppl. Cimic. Suec., p. 6, 1826.
Schilling, Beit. z. Ent., i, p. 57, 1829, *Platynotus*.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 198, 1829, *Lygaeus*.
Hahn, Wanz. Ins., i, p. 19, fig. 11, 1831, *Platynotus*.
Laporte, Essai Classif. Syst. Hémip., p. 38, 1832, *Meganotus*.
Dufour, Rech. des Hémip., p. 170, 1833.
Curtis, Brit. Ent., x, pl. 465, 1833.
Herrich-Schaeffer, Nomen. Ent., p. 43, 1835.
Burmeister, Handb. d. Ent., ii, p. 286, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 383, 1835, *Astemma*.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 163, 1836, *Lygaeus*.
Spinola, Essai sur les Hémip., p. 178, 1837 (1840), *Astemma*.
Costa, Cimic. Neap., Cent. i, p. 48, 1838, *Astemma*.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
Blanchard, Hist. des Ins., Hémip., p. 129, pl. 5, fig. 1, 1840, *Astemma*.
Amyot and Serville, Hémip., p. 269, 1843.
Kolenati, Melet. Ent., ii, p. 69, 1845, *Platynotus*.
Flor, Rhyn. Livl., i, p. 212, 1860.
Fieber, Europ. Hemip., p. 163, 1861.
Douglas and Scott, Brit. Hemip., p. 164, 1865.
Stål, Enum. Hemip., i, p. 115, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 228, pl. 21, fig. 25, 1883.
Reuter, Revue d'Ent., iv, p. 231, 1885.
Reuter, Rev. Synon., p. 214, No. 164, 1888.
Kirkaldy, Can. Ent., xli, p. 31, 1909 (as type of *Astemma* Lep. & Serv.).
Barber, Jl. N. Y. Ent. Soc., xix, p. 111, 1911. [Linn.).
gregarius (Goeze), Ent. Beytr., ii, p. 213, 1778, *Cimex* (n.n. for *apterus*
calmariensis Fallén, Hemip. Suec., Cimic, p. 45, 1829 (n.n. for *apterus* [Linn.).

Localities: N. J. (Costa Rica, Europe, Asia, Africa.)

Genus **Dysdercus** Am. & Serv.
Haplotype *koenigii* Fabr. =*cingulatus* Fabr.

Amyot and Serville, Hémip., p. 272, 1843.
Stål, Of. Vet. Akad. Forh., xviii, p. 196, 1861.
Stål, Hemip. Afr., iii, pp. 4, 13, 1865.
Stål, Enum. Hemip., i, p. 117, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 229, 1883.
Distant, Fauna Br. Ind., Rhyn., ii, p. 118, 1903 (names *cingulatus* Fabr. type).
Kirkaldy, Entomol., xxxix, p. 256, 1906 (names *decussatus* type).
†*Astemma* Laporte, Essai Classif. Syst. Hémip., p. 37, 1832 (names *Koenigii* [Fabr. as type).

Blanchard, Hist. Nat. des Ins., Hémip., p. 128, 1840, part.
Piezodera Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 953, 1861 (type [*ruber* Sign.).

627. **Dysdercus mimus** (Say)

Say, Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 783; Compl. Writ., i, [p. 338, *Capsus*.
Stål, Stet. Ent. Zeit., xxiii, p. 316, 1862.
Stål, Enum. Hemip., i, p. 120, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 229, pl. 21, fig. 4, 1883.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, N., 5, p. 18, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.

Localities: Fla., Texas, Ariz., Calif.

628. **Dysdercus albidiventris** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854. (*Dysderus* by error.)
Stål, Stet. Ent. Zeit., xxiii, p. 315, 1862 (excl. synon.).
Stål, Enum. Hemip., i, p. 127, 1870 (excl. synon.).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 229, pl. 21, figs. 5, 10, 1883.
lunulatus Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861.

Localities: Texas, Calif. (Neotropical.)

629. **Dysdercus concinnus** Stål

Stål, Of. Vet. Akad. Forh., xviii, p. 198, 1861.
Stål, Enum. Hemip., i, p. 121, 1870.
Distant, Biol. Centr. Am., Heter., i, p. 231, pl. 21, figs. 11, 12, 15, 1883.
Barber, Brookl. Inst., Sci. Bul., i, p. 277, 1906.
mundus Walker Cat. Heter., v, p. 181, 1872.
Localities: Texas. (Neotropical.)

630. **Dysdercus obliquus** H. S.

Herrich-Schaeffer, Wanz. Ins., vii, p. 19, fig. 701, 1844, *Pyrrhocoris.*
Stål, Stet. Ent. Zeit., xxiii, p. 316, 1862.
Stål, Enum. Hemip., i, p. 121, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
bimaculatus Stål, Of. Vet. Akad. Forh., xi, p. 236, 1854. (§*Dysderus.*)
Stål, Freg. Eugen. Resa, Ins., p. 253, 1859.
Localities: Ariz., Calif. (Neotropical.)

631. **Dysdercus peruvianus** (Guer.)

Guerin, Voy. Coquil. Zool., ii, pt. 2, p. 178, 1838, *Lygaeus.*
Guerin, Voy. Coquil., Zool., Atlas, pl. 12, fig. 16, 1838, *Dysdercus.*
Stål, Enum. Hemip., i, p. 121, 1870.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 314, 1876.
Localities: "Calif." (Neotropical, Haw. Isds.)
[Stål's record of Calif. may be erroneous.]

632. **Dysdercus andreae** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758; edn. 12, i, pt. 2, p. 727, 1767,
Goeze, Ent. Beytr., ii, p. 214, 1778, *Cimex.* [*Cimex.*
Herrich-Schaeffer Wanz. Ins., Verz., p. 192, 1853, *Stiretrus?*
Stål, Berl. Ent. Zeit., x, p. 382, 1866.
Stål, Hemip. Fabr., i, p. 85, 1868.
Stål, Enum. Hemip., i, p. 122, 1870.
Walker, Cat. Heter., v, p. 181, 1878.
Hunter, U. S. Dept. Agr., Div. Ent., Bul. 38, n.s., p. 106, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
suturalis (Fabricius), Syst. Ent., p. 721, 1775, *Cimex.*
Goeze, Ent. Beytr., ii, p. 257, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 365, 1781, *Cimex.*
Fabricius, Mantissa Ins., ii, p. 301, 1787, *Cimex.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2174, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 159, *Lygaeus.*
Wolff, Icones Cimic., i, p. 29, fig. 29, 1800, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 225, 1803, *Lygaeus.*
Laporte, Essai Classif. Syst. Hémip., p. 37, 1832, *Astemma.*
Burmeister, Handb. d. Ent., ii, p. 285, 1835, *Pyrrhocoris.*
Spinola, Essai sur les Hémip., p. 177, 1837 (1840), *Astemma.*
Herrich-Schaeffer, Wanz. Ins., vii, p. 17, fig. 698, 1844, *Pyrrhocoris.*
Localities: Fla. (West Indies.)

633. **Dysdercus suturellus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., vi, p. 76, fig. 645, 1842, *Pyrrhocoris.*
Stål, Enum. Hemip., i, p. 123, 1870.
Saunders, Ins. Inj. to Fruits, p. 387, fig. 397, 1883.
Riley and Howard, Insect Life, i, p. 234, 1889 (life history).
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 86, p. 95, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 509, 1914.
Hunter, U. S. Dept. Agr., Bur. Ent., Circular 149, 1912.
Localities: Fla. (Neotropical.)

634. **Dysdercus ocreatus** (Say)

Say, Heter. N. Harm., p. 19, 1832; Fitch reprint, p. 782; Compl. Writ., i, p.
Uhler, Check List, p. 17, 1886 (spelled *acreatus*). [338, *Capsus.*
Locality: Ga.

635. **Dysdercus obscuratus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 230, pl. 21, figs. 8 and 9, 1883.
Locality: "S. St."
(Reference for this record lost.)

SERIES *ANONYCHIA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 18, 1912.

Family TINGIDIDAE (Lap.)

Laporte, Essai Classif. Syst. Hémip., p. 47, 1832, *Tingidites.*
Spinola, Essai sur les Hémip., p. 161, 1837, *Tingidites.*
Fieber, Ent. Monog., p. 27, 1844, *Tingideae.*
Spinola, Tavola Sinot., pp. 27, 43, 1850, *Tingiditae.*
Fieber, Genera Hydroc., p. 9, 1851, *Tingididea.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 143, 1853, *Tingideae.*
Fieber, Europ. Hemip., pp. 24, 35, 116, 1860, *Tingididae.*
Stål, Hemip. Afr., iii, p. 25, 1865, *Tingidida.*
Stål, Enum. Hemip., iii, p. 115, 1873, *Tingitidae.*
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 43, 1874, *Tingitidae.*
Uhler, Check List, p. 21, 1886, *Tingitidae.*
Puton, Cat. Hemip. Palae., edn. 3, p. 31, 1886, *Tingidides.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 1, 1896, *Tingidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 1, 1897, *Tingitidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 122, 1903, *Tingididae.*
Horvath, Ann. Mus. Natl. Hung., iv, p. 1, 1906, *Tingitidae* (monograph
Oshanin, Verz. Palae., Hemip., i, p. 395, 1908, *Tingididae.* [European forms).
Kirkaldy, Can. Ent., xl, p. 360, 1908, *Tingidae.* [*Tingidoidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 27, 1912, Superfam.
Oshanin, Kat. Palae. Hemip., p. 41, 1912, Superfam. *Tingitoideae.*
Osborn and Drake, Ohio St. Univ. Bul. xx, p. 217, 1916, Superfam. *Tingitoida.*
Membranaceae Latreille, Fam. Nat. Règne Anim., p. 422, 1825 (part).
Amyot and Serville, Hemip., pp. xl, 295, 1843, *Membranacei.*
Dohrn, Cat. Hemip., p. 41, 1859, *Membranacei.*

Subfamily PIESMINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xl, 300, 1843, Groupe *Piesmides.*
Spinola, Tavola Sinot., p. 44, 1850, *Piesmoeideae.*
Stål, Enum. Hemip., iii, p. 115, 1873, *Piesmina.*
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 44, 1874, *Piesmina.*
Uhler, Check List, p. 21, 1886, *Piesmina.*
Puton, Cat. Hémip., Palae., edn. 3, p. 31, 1886, Tribe *Piesmini.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 1, 1896, *Piesmidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897, *Piesminae.*
Horvath, Ann. Mus. Natl. Hung., iv, p. 2, 1906, *Piesminae.*
Oshanin, Verz. Palae. Hemip., i, p. 395, 1908, *Piesmina.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 77, 1910, Fam. *Piesmidae.*
Banks, Cat. Nearc. Heter., p. 57, 1910, Tribe *Piesmini.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 14, 1911, *Piesmidae.* [*Piesmidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912, Fam.
Oshanin, Kat. Palae. Hemip., p. 41, 1912, Fam. *Piesmidae.*
Osborn and Drake, Ohio St. Univ. Bul. xx, p. 218, 1916, Fam. *Piesmidae.*
Zosmenidae Dohrn, Cat. Hemip., p. 41, 1859.
Douglas and Scott, Brit. Hemip., pp. 22, 237, 1865, *Zosmeridae.*

Genus **Piesma** Lep. & Serv.
Logotype *capitata* (Wolff)

Le Peletier and Serville, Encyc. Méth., x, p. 652, 1825 (as subgen. of *Tingis*).
Brullé, Hist. Nat. des Ins., ix, p. 342, 1835. (Names *capitata* type.)
Spinola, Essai sur les Hémip., p. 231, 1837.
Blanchard, Hist. des Ins., Hémip., p. 113, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
Amyot and Serville, Hémip., p. 301, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Stål, Enum. Hemip., iii, p. 115, 1873.
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 44, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897.
Horvath, Ann. Mus. Natl. Hung., iv, p. 2, 1906.
Zosmenus Laporte, Essai Classif. Syst. Hémip., p. 49, 1832 (*Zosnanus* [on p. 47; Type *maculatus* Lap.).
Burmeister, Handb. d. Ent., ii, p. 262, 1835, *Zosmerus.*
Fieber, Ent. Monog., p. 30, 1844.
Flor, Rhyn. Livl., i, p. 310, 1860.
Fieber, Europ. Hemip., pp. 35, 116, 1861.
Stål, Hemip. Afr., iii, p. 25, 1865.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 218, 1916.
Aspidotoma Curtis, Ent. Mo. Mag., i, p. 196, 1833 (only species *capitata*).

636. **Piesma cinerea** (Say)

Say, Heter N. Harm., p. 27, 1832; Fitch reprint, p. 793; Compl. Writ., i, p. [349, *Tingis.*
Stål, Enum. Hemip., iii, p. 116, 1873.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
Gillette and Baker, Hemip. Colo., p. 56, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.

Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 218, 1916.
Localities: Ont., N. Y., Pa., N. C., Fla., Ohio, Ill., Kan., Colo., Calif.

Subfamily **TINGIDINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xl, 295, 1843, Groupe *Tingides.*
Dohrn, Cat. Hemip., p. 42, 1859, *Tingidae.*
Douglas and Scott., Brit. Hemip., pp. 23, 242, 1865, Section *Tingidina.*
Stål, Enum. Hemip., iii, pp. 115, 116, 1873, *Tingitina.*
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, pp. 44, 45, 1874, *Tingitina.*
Uhler, Check List, p. 22, 1886, *Tingitina.*
Puton, Cat. Hémip. Palae., edn. 3, p. 31, 1886, Tribe *Tingidini.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 4, 1894, *Tingidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 2, 1897, *Tingitinae.*
Horvath, Ann. Mus. Natl. Hung., iv, pp. 2, 10, 1906, *Tingitinae.*
Oshanin, Verz. Palae. Hemip., i, p. 400, 1908, *Tingidina.*
Banks, Cat. Nearc. Hemip., p. 55, 1910, *Tingitini.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 77, 1910, Fam. *Tingididae.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 14, 1911, *Tingitidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 57, 1912, Fam.
Oshanin, Kat. Palae. Hemip., p. 42, 1912, Fam. *Tingitidae.* [*Tingididae.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Tingididae.*
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 219, 1916, *Tingitidae.*

TRIBE *TINGIDINI* (Stål)

Stål, Enum. Hemip., iii, pp. 116, 118, 1873, Div. *Tingitaria.*
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, pp. 46, 47, 1874, Div. *Tingitaria.*
Champion, Biol. Centr. Am., Heter., ii, p. 5, 1897, Group *Tingitini.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 130, 1903, Div. *Tingidaria.*
Horvath, Ann. Mus. Natl. Hung., iv, pp. 10, 13, 1906, Div. *Tingitaria.*
Oshanin, Verz. Palae. Hemip., i, p. 401, 1908, Div. *Tingidaria.*
Oshanin, Kat. Palae. Hemip., p. 42, 1912, Tribe *Tingitaria.*

Genus **Acalypta** Westw.

Orthotype *carinata* Panz.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (names *carinata*
Stål, Enum. Hemip., iii, pp. 118, 122, 1873. [type).
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 51, 1874.
Horvath, Ann. Mus. Natl. Hung., iv, pp. 13, 24, 1906.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 220, 1916.
Orthosteira Fieber, Ent. Monog., pp. 29, 46, 1844.
Flor, Rhyn. Livl., i, pp. 330, 331, 1860 (as subgen. of *Monanthia*).
‡*Orthostira* Fieber, Europ. Hemip., pp. 36, 130, 1861.
Douglas and Scott, Brit. Hemip., p. 260, 1865.

637. **Acalypta thomsonii** Stål

Stål, Enum. Hemip., iii, p. 122, 1873.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 39, 1916.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 220, 1916.
Localities: S. C., Va.

637¼. **Acalypta lillianis** Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 39, 1916.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 221, figs. 1, 2, 1916.
Localities: Ont., Me., N. H., N. Y., N. J., Mich.

637½. **Acalypta ovata** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 9, 1916.
Localities: Ont., N. H.

Genus **Fenestrella** O. & D.
Orthotype *ovata* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 222, 1916.

637¾. **Fenestrella ovata** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 223, fig. 3, 1916.
Locality: Ohio.

Genus **Corythucha** Stål
Logotype *fuscigera* Stål

Stål, Enum. Hemip., iii, pp. 119, 122, 1873.
Uhler, Check List., p. 22, 1886, *Corythuca.*
Provancher, Pet. Faune Ent. Can., iii, p. 157, 1887, *Corythuca.*
Champion, Biol. Centr. Am., Heter., ii, p. 6, 1897.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 57. [species.)
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 224, 1916. (Key to Ohio

638. **Corythucha ciliata** (Say)

Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 793; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 123, 1873. [348, *Tingis.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 414, 1878, *Tingis.*
Lintner, 4th Rept. N. Y. St. Ent., p. 107, 1888, *Corythuca.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Corythuca.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythuca.*
Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythuca.*
Morill, Psyche, x, 133, 1903, *Corythuca.*
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904. *Corythuca.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythuca.*
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 225, pl. 10, fig. h, 1916.
hyalina Herrich-Schaeffer, Wanz. Ins., v, p. 84, fig. 532, 1839, *Tingis.*
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Ala., Ohio, Ill., Colo.

638¼. **Corythucha pallida** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 230, 1916.
a. var. **ulmi**, Osborn and Drake, Ohio St. Univ. Bul., xx, p. 231, 1916.
Locality: Ohio.

639. **Corythucha arcuata** (Say)

Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 123, 1873. [350, *Tingis.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 415, 1878, *Tingis.*
Uhler, Stand. Nat. Hist., ii, p. 284, fig. 327, 1884, *Corythuca.*

Lintner, 4th Rept. N. Y. St. Ent., p. 108, 1888, *Corythuca.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythuca.*
Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythuca.*
Morill, Psyche, x, p. 127, 1903, *Corythuca.*
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Corythuca.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908; xviii, p. 31, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythuca.*
Van Duzee, Can. Ent., xliv, p. 323, 1912, *Corythuca.*
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 227, pl. 9, 1916.
†*juglandis* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887, *Corythuca.*
†*ciliata* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887, *Corythuca.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md., D. C., N. C., Ala., Ohio, Ill., Texas, Colo.

639¼. **Corythucha crataegi** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 229, pl. 10, fig. f, 1916.
†*arcuata* var. *crataegi* Morrill, Psyche, x, p. 132, 1903 (egg only).
Bueno, Can. Ent., xliv, p. 212, 1912 (as species).
Localities: N. Y., Mass., Ohio.

640. **Corythucha pergandei** Heid.

Heidemann, Proc. Ent. Wash., viii, p. 10, fig. 2, 1906, *Corythuca.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908; xviii, p. 31, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythuca.*
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 228, figs. 4, 5, 1916.
†*incurva* Van Duzee, Can. Ent., xl, p. 111, 1908, *Corythuca.*
Localities: Ont., Mass., N. Y., N. J., Pa., Md., Va., Ohio, Ill., Kan.

640¼. **Corythucha pruni** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 231, 1916.
Locality: D. C.

641. **Corythucha incurvata** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 280, 1894, *Corythuca.*
Localities: Ariz., Calif., Oregon. (Mexico.)

642. **Corythucha caelata** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythuca.*
Localities: Calif. (Mexico.)

643. **Corythucha fuscigera** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 323, 1862, *Tingis.*
Stål, Enum. Hemip., iii, p. 122, 1873.
Uhler, Proc. Ent. Soc. Wash., ii, p. 381, 1893, *Corythuca.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894, *Corythuca.*
Gillette and Baker, Hemip. Colo., p. 57, 1895, *Corythuca.*
Champion, Biol. Centr. Am., Heter., ii, p. 7, pl. 1, fig. 6, 1897.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 57.
lucida Walker, Cat. Heter., vi, p. 191, 1873, *Monanthia.*
obliqua Osborn and Drake, Ohio Jl. Sci., xvii, p. 11, 1916.
Localities: Colo., Utah, Calif. Ore. (Mexico.)

644. **Corythucha decens** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 324, 1862, *Tingis.*
Stål, Enum. Hemip., iii, p. 123, 1873.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 204, *Corythuca.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythuca.*
Champion, Biol. Centr. Am., Heter., ii, p. 7, pl. 1, fig. 7, 1897.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.
Localities: Pa., D. C., Texas, Calif.

645. **Corythucha marmorata** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 415, 1878, *Tingis.*
Van Duzee, Can. Ent., xxi, p. 5, 1889, *Corythuca.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894, *Corythuca.*
Howard, U. S. Dept. Agr., Div. Ent., Bul. n.s. 44, p. 89, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 19, 1907; ix, p. 173, 1909,
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914. [*Corythuca.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Osborn and Drake, Ohio St. Univ. Bul. xx, p. 226, 1916. [p. 99, 1898.
[*irrorata* Riley MS] Howard, U. S. Dept. Agr., Div. Ent., Bul. n.s. No. 10,
Localities: Ont., Me., Mass., N. Y., N. J., D. C., N. C., Fla., Ala., Ohio, Colo., N. Mex., Calif.

645¼. **Corythucha contracta** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 230, 1916.
Locality: Ohio.

646. **Corythucha floridana** Heid.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 173, 1909, *Corythuca* (name only).
Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 236, figure, 1909, *Corythuca.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Corythuca.*
Locality: Fla.

647. **Corythucha gossypii** (Fabr.)

Fabricius, Ent. Syst., iv, p. 78, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 126, 1803, *Tingis.*
Latreille, Genera Crust. Ins., iii, p. 140, 1807, *Tingis.*
Burmeister, Handb. d. Ent., ii, p. 259, 1835, *Tingis.*
Herrich-Schaeffer, Wanz. Ins., v, p. 85, fig. 534, 1839, *Tingis.*
Fieber, Ent. Monog., p. 104, pl. 9, fig. 5, 1844, *Tingis.*
Stål, Hemip. Fabr., i, p. 93, 1868, *Galeatus.*
Stål, Enum. Hemip., iii, p. 123, 1873.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 18, 1907, *Corythuca.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Corythuca.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914, *Corythuca.*
Localities: N. Y., N. J., Fla. (West Indies.)

648. **Corythucha hispida** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 279, 1894, *Corythuca.*
Localities: Ariz., Calif. (Mexico.)

648¼. **Corythucha spinosa** Dug.

Duges, La Nat., Ser. 2, i, p. 207, pl. 18, figs. 1–3, 1889, *Tingis.*
Champion, Biol. Centr. Am., Heter., ii, p. 8, pl. 1, fig. 9, 1897.
Localities: Calif. (Mexico.)

6481/2. **Corythucha setosa** Champ.

Champion, Biol. Centr. Am., Heter., i, p. 8, pl. 1, fig. 10, 1897.
Localities: Calif. (Guatemala.)

Corythucha cydoniae Fitch

Fitch, Country Gentleman, xiv, p. 25, Febr., 1861, *Tingis* (invalid).
Lintner, 1st Rept., N. Y. St. Ent., p. 311, 1885 (notice only).
Locality: N. Y.

649. **Corythucha juglandis** Fitch

Fitch, 3d Rept., Trans. N. Y. St. Agr. Soc., xvi, p. 466, No. 193, 1856, *Tingis*.
Stål, Enum. Hemip., iii, p. 123, 1873.
Van Duzee, 20th Rept., N. Y. St. Ent., for 1904, p. 549, 1905, *Corythuca*. [*polygrapha* Uhl. MS], Lintner, 4th Rept., N. Y. St. Ent., p. 109, 1888.
Localities: Me., N. Y., N. J., Ill., Idaho, Br. Col.

649 1/16. **Corythucha immaculata** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 11, 1916.
Locality: Calif.

649 1/8. **Corythucha mollicula** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 12, 1916.
Locality: Mich.

649 3/16. **Corythucha distincta** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 13, 1916.
Locality: Colo.

649 1/4. **Corythucha celtidis** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 227, 1916.
Locality: Ohio.

649 1/2. **Corythucha aesculi** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 232, pl. 10, fig. g, 1916.
Locality: Ohio.

649 3/4. **Corythucha bulbosa** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 232, pl. 10, fig. e, 1916.
carbonata Uhler, MS.
Localities: Md., Ohio.

649 7/8. **Corythucha associata** O. & D.

Osborn and Drake, Ohio. Jl. Sci., xvii, p. 14, 1916.
Locality: Tenn.

Genus **Dolichocysta** Champ.

Haplotype *venusta* Champ.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 56.

650. **Dolichocysta venusta** Champ.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 57, pl. 2, fig. 1.
Locality: Colo. (Mexico.)

Genus **Galeatus** Curt.

Haplotype *spinifrons* Fall.

Curtis, Newman's Ent. Mag., i, p. 196, 1833 (for *spinifrons* Fall.).
Spinola, Essai sur les Hémip., p. 164, 1837.

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
Fieber, Ent. Monog., p. 22, 1844 (as synon. of *Tingis*).
Stål, Enum. Hemip., iii, p. 118, 1873.
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 48, 1874.
Distant, Fauna Br. Ind., Rhyn., ii, p. 131, 1903.
Horvath, Ann. Mus. Natl. Hung., iii, p. 566, 1905; iv, pp. 13, 49, 1906; ix, p.
Osborn and Drake, Ohio St. Univ. Bul. xx, p. 236, 1916. [337, 1911.
Cadmilos Distant, Ann. Soc. Ent. Belg., liii, p. 113, 1909. [Haplotype
Distant, Fauna Br. Ind., Rhyn., v, p. 107, 1910. [*retiarius* Dist.)

651. **Galeatus peckhami** (Ashm.)

Ashmead, Ent. Am., iii, p. 156, 1887, *Sphaerocysta*.
Van Duzee, Can. Ent., xxi, p. 5, 1889.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.
Parshley, Ent. News, xxvii, p. 105, 1916.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 236, 1916.
Localities: Ont., N. H., Mass., Wisc., Manitoba, N. Mex.

Genus **Stephanitis** Stål
Logotype *pyri* Fabr.

Stål, Enum. Hemip., iii, pp. 119, 123, 1873.
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 53, 1874.
Horvath, Ann. Mus. Natl. Hung., iv, pp. 14, 54, 1906; x, p. 319, 1912.
Oshanin, Kat. Palae. Hemip., pp. 43, 130, 1912 (names *pyri* type).
†*Tingis* Laporte, Essai Classif. Syst. Hémip., p. 48, 1832 (names *pyri*
Burmeister, Handb. d. Ent., ii, p. 259, 1835 (part). [pseudotype).
Spinola, Essai sur les Hémip., p. 166, 1837.
Blanchard, Hist. des Ins., Hémip., p. 112, 1840.
Amyot and Serville, Hémip., p. 296, 1843.
Fieber, Ent. Monog., p. 101, 1844 (part).
Flor, Rhyng. Livl., i, pp. 359, 365, 1860.
Fieber, Europ. Hemip., pp. 36, 128, 1861 (part).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 12, 1894.
Leptobyrsa Stål, Enum. Hemip., iii, pp. 119, 123, 1873. (Haplotype *steinii*
Champion, Biol. Cent. Am., Heter., ii, p. 25, 1897. [Stål).
Champion, Trans. Ent. Soc. Lond. for 1898, p. 58.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 240, 1916.
†*Leptostyla* Provancher, Pet. Faune Ent. Can., iii, p. 158, 1887.
Cadamustus Distant, Ann. Soc. Ent. Belg., xlvii, p. 47, 1903 (type *typicus*).
Maecenas Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Tingis*
Mokanna Distant, Fauna Br. Ind., Rhyn., v, p. 111, 1910. [L. & S.).

652. **Stephanitis pyrioides** Scott

Scott, Ann. Mag. Nat. Hist., Ser. 4, xiv, p. 440, 1874.
Oshanin, Kat. Palae. Hemip., p. 44, 1912.
Weiss, Ent. News, xxvii, p. 163, 1916. [*pyrioides* Scott).
azaleae Horvath, Ann. Mus. Natl. Hung., iii, p. 568, 1905 (n.n. for
Horvath, Ann. Mus. Natl. Hung., iv, pp. 55, 56, 1906, x, p. 333, 1912.
Oshanin, Kat. Palae. Hemip., p. 130, 1912.
Localities: N. J., D. C. (Japan.)

653. **Stephanitis rhododendri** Horv.

Horvath, Ann. Mus. Natl. Hung., iii, p. 567, 1905.
Horvath, Synop. Tingit. Reg. Palae., p. 55, 1906.
†*oblonga* (Provancher), Pet. Faune Ent. Can., iii, p. 159, 1887, *Leptostyla.*
Leptobyrsa sp. nov., Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.
explanata Heidemann, Proc. Ent. Soc. Wash., x, p. 105, pl. 4, figs. *d* and *e*, [1908, *Leptobyrsa.*
Smith, Cat. Ins. N. J., edn. 3, p. 148, 1910, *Leptobyrsa.*
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910, *Leptobyrsa.* [history).
Crosby and Hadley, Jl. Econ. Ent., viii, p. 409, 1915, *Leptobyrsa* (life
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 240, figure, 1916, *Lepto-* [*byrsa.*
Localities: Me., Mass., N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Fla., Ohio. (Europe.)

Gargaphia Stål
Logotype *patricia* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 324, 1862 (as subgen. of *Monanthia*).
Stål, Enum. Hemip., iii, pp. 119, 124, 1873.
Uhler, Stand. Nat. Hist., ii, p. 285, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 159, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 9, 1897.
Champion, Proc. Ent. Soc. Lond. for 1898, p. 58.
Osborn and Drake, Ohio St. Univ., Bul. xx, p. 233, 1916.

654. **Gargaphia tiliae** (Walsh)

Walsh, Proc. Ent. Soc. Phila., iii, p. 408, 1864, *Tingis.*
Uhler, Check List., p. 22, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 159, 1887.
Bergroth, Revue d'Ent., xi, p. 264, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 181, 1894.
Gillette and Baker, Hemip. Colo., p. 57, 1895.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 234, 1916.
fasciata Stål, Enum. Hemip., iii, p. 125, 1873.
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.

a. var. **amorphae** (Walsh)

Walsh, Proc. Ent. Soc. Phila., iii, p. 409, 1864, *Tingis.*
Uhler, Check List, p. 22, 1886.
Bergroth, Revue d'Ent., xi, p. 264, 1892.
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 235, 1916.
Localities: N. Y., N. J., Pa., Va., Ohio, Ill., Kan., Colo.

655. **Gargaphia iridescens** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 10, pl. 2, fig. 1, 1897.
Localities: Colo., Texas. (Mexico.)

656. **Gargaphia opacula** Uhl.

Uhler, N. Am. Fauna, vii, p. 263, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
Van Duzee, Trans. San Diego, Soc. Nat. Hist., ii, p. 11, 1914.
Localities: N. Mex., Calif.

657. **Gargaphia angulata** Heid.

Heidemann, Can. Ent., xxxi, p. 301, 1899.
Chittenden, U. S. Dept. Agr., Div. Ent., Bul. n.s. xxiii, p. 32, fig. 8, 1900.
Smith, Cat. Ins. N. J., edn. 3, fig. 43, on p. 149, 1910.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 233, fig. 6, 1916.
Localities: Mass., Pa., D. C., N. C., Tenn., Ala., Ohio.

[**Gargaphia undulata** Heid MS]

Heidemann, Proc. Ent. Soc. Wash., iv, p. 493, 1900.
Locality: D. C.

658. **Gargaphia solani** Heid.

Heidemann, Proc. Ent. Soc. Wash., xvi, p. 136, 1914.
Fink, U. S. Dept. Agr., Bul. 239, 1915.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 235, fig. 7, 1916.
Localities: Va., Ohio, Mo., Okl., Texas.

Genus **Leptostyla** Stål
Logotype *oblonga* Say

Stål, Enum. Hemip., iii, pp. 120, 125, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 11, 1897.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 60.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 237, 1916. [Stål).
Gelchossa Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Leptostyla*

659. **Leptostyla oblonga** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 325, 1825; Compl. Writ., ii, p. 248,
Stål, Enum. Hemip., iii, p. 126, 1873. [*Tingis.*
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 238, 1916.
Localities: N. J., Md., Mo.

660. **Leptostyla constricta** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 20, pl. 2, fig. 6, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 19, 1907.
costofasciata Drake, Ohio Jl. Sci., xvi, p. 326, 1916.
†*clitoriae* Osborn and Drake, Ohio St. Univ. Bul., xx, p. 239, fig. 8, 1916.
Localities: Pa., D. C., S. C., Ind., Tenn.

661. **Leptostyla clitoriae** Heid.

Heidemann, Proc. Ent. Soc. Wash., xiii, p. 137, pl. 10, fig. 6, egg; p. 180, [fig. 4, 1911, description.
heidemanni Osborn and Drake, Ohio St. Univ. Bul., xx, p. 238, 1916.
Localities: Mass., N. Y., Pa., D. C., Md., Ark.

Genus **Leptodictya** Stål
Logotype *ochropa* Stål

Stål, Enum. Hemip., iii, p. 127, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 23, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 60.
Van Duzee, Check List. Hemip., p. 26, 1916, *Leptodicta* by error.

662. **Leptodictya plana** Heid.

Heidemann, Proc. Ent. Soc. Wash., xv, p. 1, fig. 1, 1913.
†*tabida* Banks, Cat. Nearc. Hemip., p. 57, 1910, *Monanthia*.
Locality: Okl.

663. **Leptodictya simulans** Heid.

Heidemann, Proc. Ent. Soc. Wash., xv, p. 3, fig. 2, 1913.
Localities: Va., S. C., Ala.

Genus **Acanthocheila** Stål
Logotype *armigera* Stål

Stål, Rio Jan. Hemip., i, p. 61, 1860 (subgen. of *Monanthia*).
Stål, Enum. Hemip., iii, pp. 119, 127, 1873 (spelled *Acanthochila* on p. 127).
Champion, Biol. Centr. Am., Heter., ii, p. 28, 1897, *Acanthochila*.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 60, *Acanthochila* (names [*armigera* type).

664. **Acanthocheila exquisita** Uhl.

Uhler, Proc. Ent. Soc. Wash., i, p. 143, 1889.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Locality: Fla.

Genus **Physatocheila** Fieb.
Logotype *quadrimaculata* Wolff

Fieber, Ent. Monog., p. 80, 1844 (subgen. of *Monanthia*).
Herrich-Schaeffer, Wanz. Ins., ix, p. 152, 1853 (subgen. of *Monanthia*).
Flor, Rhyn. Livl., i, p. 349, 1860 (subgen. of *Monanthia*).
Fieber, Europ. Hemip., p. 120, 1861 (subgen. of *Monanthia*).
Stål, Hemip. Afr., iii, p. 28, 1865, *Physatochila* (subgenus).
Stål, Enum. Hemip., iii, pp. 120, 129, 1873, *Physatochila*.
Walker, Cat. Heter., vi, p. 185, 1873 (*Monanthia* subdiv. *Physatochilae*).
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 56, 1874, *Physatochila*.
Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 21, 1894, *Physatochila*.
Horvath, Ann. Mus. Natl. Hung., iv, p. 94, 1906.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 242, 1916. [*tochila* L. & S.).
Phyllochisme Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Physa-*

665. **Physatocheila plexa** (Say)

Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p. [349, *Tingis*.
Stål, Enum. Hemip., iii, p. 129, 1873.
Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent. for 1904, p. 549, 1905.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 242, 1916.
Localities: Quebec, Ont., Me., N. Y., Pa., D. C., Ind., Ill., W. Va., Mich.

665¼. **Physatocheila brevirostris** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 243, 1916.
Localities: N. Y., Ohio.

665½. **Physatocheila variegata** Parsh.

Parshley, Psyche, xxiii, p. 166, 1917.
Localities: Mass., Conn., N. Y.

Genus **Leptoypha** Stål
Haplotype *mutica* Say

Stål, Enum. Hemip., iii, pp. 121, 129, 1873.
Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 61.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 241, 1916.

666. **Leptoypha mutica** (Say)

Say, Heter. N. Harm., p. 27, 1832; Fitch reprint, p. 794; Compl. Writ., i, p. [349, *Tingis*.
Stål, Enum. Hemip., iii, p. 129, 1873.
Provancher, Pet. Faune Ent. Can., iii, p. 160, 1887.
Uhler, N. Am. Fauna, vii, p. 264, 1893.
Wirtner, Ann. Carn. Mus., iii, p. 203, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Dickerson and Weiss, Ent. News, xxvii, p. 308, 1916 (life history).
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 241, 1916.
Localities: Quebec, N. Y., N. J., Ind., Texas.

666½. **Leptoypha brevicornis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 32, pl. 2, fig. 28, 1897.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.
Localities: Ariz. (Mexico.)

Genus **Melanorhopala** Stål
Logotype *clavata* Stål

Stål, Enum. Hemip., iii, p. 130, 1873 (subgen. of *Tingis*).
Horvath, Ann. Mus. Natl. Hung., vi, p. 565, 1908.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 243, 1916.
†*Cantacader* Ashmead, Can. Ent., xviii, p. 20, 1886.
†*Lasiacantha* Lethierry and Severin, Cat. Génl. Hémip., iii, p. 18, 1894 [(part).
†*Tingis* Banks, Cat. Neare. Hemip., p. 57, 1910.

667. **Melanorhopala clavata** Stål

Stål, Enum. Hemip., iii, p. 130, 1873.
Horvath, Ann. Mus. Natl. Hung., vi, p. 564, 1908.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 231, 1908.
Bueno, Can. Ent., xl, p. 166, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 244, pl. 10, fig. d, 1916.
henshawi Ashmead, Can. Ent., xviii, p. 20, 1886, *Cantacader*.
Localities: Me., Mass., N. Y., N. J., Wis., Manitoba.

668. **Melanorhopala lurida** Stål

Stål, Enum. Hemip., iii, p. 131, 1873.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 244, 1916.
Localities: N. Y., Ohio, Ill., Kan.

669. **Melanorhopala uniformis** Stål

Stål, Enum. Hemip., iii, p. 131, 1873.
Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, 1916.
Localities: Ill., S. Dak.

669½. **Melanorhopala duryi** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 15, 1916.
Locality: Texas.

Genus **Dichocysta** Champ.
Haplotype *pictipes* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 33, 1898.

670. **Dichocysta pictipes** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 34, pl. 3, figs. 1, 2, 1898.
Heidemann, Proc. Ent. Soc. Wash., iv, p. 339, 1898.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.
Localities: Ariz. (Neotropical.)

Genus **Alveotingis** O. & D.
Orthotype *grossocerata* O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, 1916.

670½. **Alveotingis grossocerata** O. & D.

Osborn and Drake, Ohio St. Univ. Bul., xx, p. 245, fig. 9, 1916.
Localities: Me., Pa.

Genus **Teleonemia** Costa
Type *funera* Costa

Costa, Ann. Mus. Zool., ii, p. 144, 1864.
Stål, Enum. Hemip., iii, pp. 122, 131, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 34, 1898.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 61.
Distant, Fauna Br. Ind., Rhyn., ii, p. 142, 1903 (names *funera* Costa type).
Americia Stål, Enum. Hemip., iii, p. 131, 1873 (subgen. of *Tingis;* type [*albilatera* Stål).
Amaurosterphus Stål, Enum. Hemip., iii, p. 131, 1873 (subgen. of *Teleonemia;* Haplotype *morio* Stål).
†*Lasiacantha* Lethierry and Severin, Cat. Génl. Hémip., iii, p. 18, 1894 [(part).

671. **Teleonemia nigrina** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 41, pl. 3, fig. 13, 1898.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.
Barber, Brookl. Inst. Sci. Bul., i, p. 281, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
Localities: Texas, N. Mex., Calif. (Neotropical.)

672. **Teleonemia variegata** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 42, pl. 3, fig. 15, 1898.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.
Localities: Ariz. (Mexico.)

673. **Teleonemia sacchari** (Fabr.)

Fabricius, Ent. Syst., iv, p. 77, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 126, 1803, *Tingis.*
Herrich-Schaeffer, Wanz. Ins., v, p. 85, fig. 533, 1839, *Monanthia.*
Fieber, Ent. Monog., p. 76, pl. 6, figs. 22–25, 1844, *Monanthia.*

Stål, Europ. Hemip., iii, p. 132, 1873.
Walker, Cat. Heter., vi, p. 191, 1873, *Monanthia.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 202 (part).
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 40, 1898 (note).
Champion, Trans. Ent. Soc. Lond. for 1898, p. 62 (note).
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 22, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Fla. (Neotropical.)

674. **Teleonemia scrupulosa** Stål

Stål, Enum. Hemip., iii, p. 132, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 40, pl. 3, fig. 12, 1898.
Stål, Hemip. Fabr., i, p. 92, 1868.
Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 22, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Texas, Fla. (West Indies, Mexico.)

675. **Teleonemia belfragei** Stål

Stål, Enum. Hemip., iii, p. 132, 1873.
Champion, Trans. Ent. Soc. Lond. for 1898, pl. 3, fig. 8.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 173, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Fla., Texas.

Teleonemia [**elongata** Uhl. MS]

Uhler, Check List, p. 22, 1886.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Locality: N. J.
[Probably is one of the preceding species.]

Genus **Atheas** Champ.
Logotype *nigricornis* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 44, 1898.
Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 231, 1909.

676. **Atheas insignis** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 232, figure, 1909.
Localities: Md., D. C.

677. **Atheas exiguus** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 233, figure, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Locality: Fla.

678. **Atheas mimeticus** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 234, figure, 1909.
Localities: Wis., Minn., Kan.

679. **Atheas austroriparius** Heid.

Heidemann, Bul. Buf. Soc. Nat. Sci., ix, p. 235, figure, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Fla., Texas.

Genus **Acysta** Champ.
Logotype *integra* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 46, 1898.

680. **Acysta perseae** Heid.

Heidemann, Proc. Ent. Soc. Wash., x, p. 103, pl. 4, figs. a, b, c, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Fla., La.

Genus **Monanthia** Lep. & Serv.
Logotype (*echii*) Fabr. = *rotundata* H. S.

Le Peletier and Serville, Encyc. Méth., x, p. 653, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 48, 1832 (subgen. of *Tingis;* names
Burmeister, Handb. d. Ent., ii, p. 260, 1835 (part). [*echii* type).
Spinola, Essai sur les Hémip., p. 167, 1837 (1840), (sect. 2 only).
Herrich-Schaeffer, Wanz. Ins., iv, p. 49, 1839 (part).
Fieber, Ent. Monog., p. 58, 1844 (Sect. b of subgen. *Physatocheila*).
Flor, Rhyn. Livl., i, pp. 328, 349, 1860.
Fieber, Europ. Hemip., pp. 36, 119, 1861 (part).
Stål, Hemip. Afr., iii, p. 26, 1865 (part).
Douglas and Scott, Brit. Hemip., p. 243, 1865 (part).
Stål, Enum. Hemip., iii, pp. 122, 133, 1873.
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 58, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 47, 1898.
Champion, Trans. Ent. Soc. Lond. for 1898, p. 64.
Distant, Fauna Br. Ind., Rhyn., ii, p. 144, 1907 (gives *echii* Sehr. as type).
Horvath, Ann. Mus. Natl. Hung., iv, p. 97, 1906.
Dictyla Stål, Of. Vet. Akad. Forh., xxxi, p. 57, 1874. (Haplotype [*platyomia* Fieb.)

681. **Monanthia labeculata** Uhl.

Uhler, N. Am. Fauna, vii, p. 264, 1893.
Locality: Calif.

TRIBE *SERENTHIINI* (Stål)

Stål, Enum. Hemip., iii, pp. 116, 117, 1873, Div. *Serenthiaria.*
Stål, Of. Vet. Akad. Forh., xxxi, No. 3, p. 46, 1874, Div. *Serenthiaria.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 126, 1903, Div. *Serenthiaria.*
Horvath, Ann. Mus. Natl. Hung., iv, p. 107, 1906, Div. *Serenthiaria.*
Oshanin, Verz. Palae. Hemip., i, p. 457, 1908, Div. *Serenthiaria.*
Oshanin, Kat. Palae. Hemip., p. 46, 1912, Tribe *Serenthiaria.*
†*Piesmidae* Dohrn, Cat. Hemip., p. 42, 1859. [= *Serenthia*).
Agrammidae Douglas and Scott, Brit. Hemip., pp. 24, 242, 1865 (*Agramma*

Genus **Agrammodes** Uhl.
Haplotype *costatus* Uhl.

Uhler, Hemip. Colo., p. 56, 1895.

682. **Agrammodes costatus** Uhl.

Uhler, Hemip. Colo., p. 56, 1895.
Locality: Colo.

Superfamily REDUVIOIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 72, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 19, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 48, 1912.

PHALANX *ENICOCEPHALIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 74, 1910, *Henicocephaliformes.*
Reuter, Of. Fenska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 25, 49, 1912, *Heni-*
[*cocephaliformes.*
Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Henicocephaliformes.*

Family ENICOCEPHALIDAE Stål

Stål, Rio Jan. Hemip., i, p. 81, 1860.
Ashmead, Ent. News, iii, p. 191, 1892, *Enicocephalinae.*
Kirkaldy, Can. Ent., xl, p. 360, 1908.
‡*Henicocephalida* Stål, Hemip. Afr., iii, p. 165, 1865.
Berg, Hemip. Argent., p. 180, 1879, *Henicocephalidae.*
Karsch, Berl. Ent. Zeit., xxxvii, p. 485, 1892, *Henicocephalidae.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 67, 1894, *Henico-*
[*cephalidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 158, 1898, *Henicocephalidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 193, 1903, *Henicocephalidae.*
Enderlein, Zool. Anzeig., xxvii, p. 783, 1904, *Henicocephalidae.*
Oshanin, Verz. Palae. Hemip., i, p. 504, 1908, *Henicocephalidae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 74, 1910, *Henico-*
[*cephalidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 55,
[1912, *Henicocephalidae.*
Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Henicocephalidae.*

Genus **Enicocephalus** Westw.
Orthotype *flavicollis* Westw.

Westwood, Trans. Ent. Soc. Lond., ii, p. 22, 1837.
Stål, Rio Jan. Hemip., i, p. 81, 1860.
Walker, Cat. Heter., viii, p. 22, 1873.
Ashmead, Proc. Ent. Soc. Wash., ii, p. 328, 1892.
‡*Henicocephalus* Stål, Hemip. Afr., iii, p. 166, 1865.
Bergroth, Revue d'Ent., viii, p. 319, 1889.
Karsch, Berl. Ent. Zeit., xxxvii, p. 485, 1892.
Bergroth, Revue d'Ent., xii, p. 155, 1893.
Champion, Biol. Centr. Am., Heter., ii, p. 158, 1898.
Distant, Ann. Mag. Nat. Hist., Ser. 7, x, p. 174, 1902.
Distant, Fauna Br. Ind., Rhyn., ii, p. 193, 1903.
Bergroth, Wien. Ent. Zeit., xxv, p. 6, 1906.
Johannsen, Psyche, xvi, p. 2, 1909. (Key.)
Bergroth, Wien. Ent. Zeit., xxxiv, p. 292, 1915. [*nasutus* Stål.)
Oneylocotis Stål, Of. Vet. Akad. Forh., xii, p. 44, 1855. (Haplotype
Stenopirates Walker, Cat. Heter., vii, p. 139, 1873. (Logotype *collaris*
[Walk.)

Dicephalus Kirby, Jl. Linn. Soc. Lond., Zool., xxiv, p. 115, 1891. (Type [*tellescopicus* Kirby.)

Hymenocoris Uhler, Trans. Md. Acad. Sci., i, p. 181, 1892. (Haplotype [*formicina* Uhl.)

Phthirocoris Enderlein, Zool. Anzeig., xxvii, pp. 785, 786, 1904. (Type [*antarcticus* Enderl., not of Berg.)

Sphigmocephalus Enderlein, Zool. Anzeig., xxvii, p. 785, 1904. (Type [*curculio* Karsch.)

683. **Enicocephalus formicina** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 182, 1892, *Hymenocoris*.
Johannsen, Psyche, xvi, p. 4, 1909.
Locality: Calif.

Genus **Systelloderus** Blanch.
Haplotype *moschatus* Blanch.

Blanchard *in* Gay, Hist. de Chili, vii, p. 224, 1852.
Bergroth, Wien. Ent. Zeit., xxxiv, p. 292, 1915. [*lucida* Horv.)
Hensehiella Horvath, Revue d'Ent., vii, p. 169, 1888. (Haplotype *pel-*
Hymenodectes Uhler, Trans. Md. Acad. Sci., i, p. 180, 1892. (Haplotype
Johannsen, Psyche, xvi, p. 2, 1909. (Key.) [*eulicis* Uhl.)

684. **Systelloderus biceps** (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 801; Compl. Writ., i,
Bergroth, Ent. News, xxiv, p. 265, 1913. [p. 356, *Reduvius*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
culicis Uhler, Trans. Md. Acad. Sci., i, p. 181, 1892, *Hymenodectes*.
Ashmead, Proc. Ent. Soc. Wash., ii, p. 329, 1892, *Enicocephalus*.
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Hymenodectes*.
Champion, Biol. Centr. Am., Heter., ii, p. 162, pl. 10, fig. 6, 1898.
Johannsen, Psyche, xvi, p. 3, 1909, *Henicocephalus*. [*Henicocephalus*.
[*schwarzii* Ashmead MS], Ent. News, iii, p. 191, 1892, *Enicocephalus*.
Karsch, Berl. Ent. Zeit., xxxvii, p. 486, 1892.
Localities: Pa., Va., Utah.

PHALYNX *REDUVIIFORMES* (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.
Reuter, Of. Finska. Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.
Oshanin, Cat. Palae. Hemip., p. 48, 1912.

Family PHYMATIDAE (Lap.)

Laporte, Essai, Classif. Syst. Hémip., p. 14, 1832, *Phymatites*.
Spinola, Essai sur les Hémip., p. 152, 1837 (1840), *Phymatites*.
Costa, Cimic. Neap., Cent., i, p. 19, 1838, *Phymatini*.
Spinola, Tavola Sinot., pp. 27, 44, 1850, *Phymatitae*.
Fieber, Genera Hydroc., p. 9, 1851, *Phymatodea*.
Costa, Cimic. Neap., Cent., iii, p. 67, 1852.
Fieber, Europ. Hemip., pp. 24, 33, 186, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 439, 1862, *Phymatida*.

Stål, Enum. Hemip., v, p. 131, 1876.
Uhler, Stand. Nat. Hist., ii, p. 284, 1884.
Uhler, Check List, p. 23, 1886.
Puton, Cat. Hémip. Palae., edn. 3, p. 34, 1886, *Phymatides.*
Provancher, Pet. Faune Ent. Can., iii, p. 161, 1887.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 127, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 49, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 146, 1903.
Banks, Cat. Nearc. Hemip., p. 51, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 15, 1911.
Oshanin, Kat. Palae. Hemip., p. 48, 1912.
Syrtides Rambur, Faune de Andul., ii, p. 167, 1842.
Spissipèdes Amyot and Serville, Hémip., pp. xxxix, 228, 1843.
Dohrn, Cat. Hemip., p. 41, 1859.
Flor, Rhyn. Livl., i, p. 398, 1860, Fam. *Spissipeda.*
Walker, Cat. Heter., vi, p. 169, 1873.
Macrocephalidae Kirkaldy, Entomol., xxxii, p. 221, 1899.
Bueno, Ent. News, xviii, p. 439, 1907.
Kirkaldy, Can. Ent., xl, p. 360, 1908.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912.

Subfamily **PHYMATINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xxxix, 288, 1843, *Phymatides.*
Dohrn, Cat. Hemip., p. 41, 1859, *Phymatidae.*
Walker, Cat. Heter., vi, p. 170, 1873, Fam. *Phymatidae.*
Stål, Enum. Hemip., v, p. 131, 1876, *Phymatina.*
Berg, Hemip. Argent., p. 141, 1879, *Phymatina.*
Uhler, Check List, p. 23, 1886, *Phymatina.*
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 142, 1897.
Banks, Cat. Nearc. Hemip., p. 52, 1910, *Phymatini.*

Genus **Phymata** Latr.
Haplotype *crassipes* (Fabr.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (names *crassipes* example).
Latreille, Hist. Nat. Crust. Ins., xii, p. 244, 1804.
Latreille, Genera Crust. Ins., iii, p. 138, 1807.
Latreille, Consid. Génl., p. 433, 1810 (names *crassipes* type).
Lamarck, Hist. Nat. Anim. s. verteb., iii, p. 505, 1816 (part).
Le Peletier and Serville, Encyc. Méth., x, p. 119, 1825.
Leach *in* Brewster's Edinb. Encyc., Am. edn., viii, p. 711, 1832 (for *crassipes*).
Laporte, Essai Classif. Syst. Hémip., p. 14, 1832 (names *crassipes* type).
Brullé, Hist. Nat. des Ins., ix, p. 346, 1835.
Spinola, Essai sur les Hémip., p. 156, 1837.
Costa, Cimic. Neap., Cent., i, p. 19, 1838.
Blanchard, Hist. Nat. des Ins., Hémip., p. 114, 1840.
Westwood, Trans. Ent. Soc. Lond., iii, p. 21, 1843.
Amyot and Serville, Hémip., p. 288, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Flor, Rhyn. Livl., i, p. 399, 1860.
Fieber, Europ. Hemip., pp. 33, 109, 1861.

Walker, Cat. Heter., vi, p. 170, 1873.
Stål, Enum. Hemip., v, p. 131, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 162, 1887.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, pp. 143, 144, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 49, 1898.
Syrtis Fabricius, Syst. Rhyn., p. 121, 1803. (Orthotype *erosa* Linn.)
Latreille *in* Cuvier, Règne Anim., edn. 2, v, p. 200, 1829.
Hahn, Wanz. Ins., iii, p. 55, 1835.
Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 57, 1835.
Burmeister, Handb. d. Ent., ii, p. 251, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 165, 1836.
Westwood, Intr. Mod. Classif. Ins., ii, p. 477, 1840.
Rambur, Faune d. Andul., ii, p. 167, 1842.
Gorski, Anal. Ent., i, p. 28, 1852. [type).
Discomerus Laporte, Essai Classif. Syst. Hémip., p. 14, 1832 (names *erosa*
Anthylla Stål, Enum. Hemip., v, pp. 131, 134, 1876 (*nerverso-punctata* logo- [type).

685. **Phymata vicina** Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 150, pl. 8, fig. 27; pl. 9, figs.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909. [6, 7, 1897.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: R. I., Fla.

686. **Phymata albopicta** Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wein, xii, p. 151, pl. 4, fig. 2; pl. 8, fig. [37; pl. 9, fig. 3, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 54, pl. 4, fig. 9, 1898.
Localities: Ga. (Neotropical.)

687. **Phymata annulipes** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 439, 1862.
Stål, Enum. Hemip., v, p. 132, 1876.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, p. 151, pl. 8, fig. 1; pl. 9, fig. 8,
Champion, Biol. Centr. Am., Heter., ii, p. 53, 1898. [1897.
Banks, Cat. Nearc. Hemip., p. 52, 1910.
Localities: Calif. (Mexico.)

688. **Phymata noualhieri** Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 153, pl. 4, fig. 3; pl. 8, fig. 4; [pl. 9, fig. 9, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 54, pl. 4, fig. 8, 1898.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Pa., Ga., Fla. (Mexico.)

689. **Phymata erosa** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 443, 1758; edn. 12, i, pt. 2, p. 718, 1767,
Sulzer, Kennz. d. Ins., p. 102, pl. 11, fig. 71, 1761, *Cimex*. [*Cimex*.
Muller, Linne's Natursyst., v, pt. 1, p. 483, 1774, *Cimex*.
Goeze, Ent. Beytr., ii, p. 189, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 337, 1781, *Acanthia*.
Fabricius, Mantissa Ins., ii, p. 279, 1787, *Acanthia*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2126, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 74, 1794, *Acanthia*.
Fabricius, Syst. Rhyng., p. 121, 1803, *Syrtis*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 245, 1804.
Latreille, Genera Crust. Ins., iii, p. 139, 1807.
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 507, 1816.
Le Peletier and Serville, Encyc. Méth., x, p. 119, 1825 (1827?).
Laporte, Essai Classif. Syst. Hémip., p. 14, pl. 51, fig. 4, 1832, *Discomerus.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 478, 1840 (note).
Westwood, Trans. Ent. Soc. Lond., iii, p. 21, pl. 2, fig. 3, 1843.
Amyot and Serville, Hémip., p. 290, 1843.
Herrich-Schaeffer, Wanz. Ins., vii, p. 15, fig. 694, 1844, *Syrtis.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.
Walker, Cat. Heter., vi, p. 170, 1873.
Stål, Enum. Hemip., v, p. 133, Nos. 8, 9, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876; iii, p. 428, 1877; iv, p. 507,
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878. [1878.
Cook, Can. Ent., xi, p. 18, 1879.
Uhler, Stand. Nat. Hist., ii, p. 284, 1884.
Lintner, 3d Rept. N. Y. St. Ent., p. 107, 1885.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 159, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.

scorpio (De Geer), Mémoirs, iii, p. 350, pl. 35, fig. 13, 1773, *Cimex.*
Retzius, Genera et Spec. Ins., p. 89, 1783, *Cimex.*
carinata (Fabricius), Syst. Rhyng., p. 122, 1803, *Syrtis.*

a. subsp. **fasciata** (Gray)

Gray *in* Griffith's Anim. Kingd., xv, p. 242, pl. 93, fig. 2, 1832, *Syrtis.*
Bergroth, Revue d'Ent., xi, p. 264, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894 (part).
Gillette and Baker, Hemip. Colo., p. 58, 1895.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 161, pl. 5, fig. 8, etc., 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 50, pl. 4, figs. 1, 2, 1898.
Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906 (under *erosa*).
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 136, pl. 10, fig. 5, 1911 (egg).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.

†*erosa* Guerin, Icon. Reg. Anim., pl. 56, fig. 12, 1843.
Localities: N. J., Md., Va., N. C., S. C., Ga., Fla., Miss., La., Ind., Wis., Minn., Ia., Kan., Mo., Colo., Utah, Texas, N. Mex., Ariz., Nev., Calif. (Neotropical.)

b. subsp. **wolffii** Stål

Stål, Enum. Hemip., v, p. 133, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 162, 1887.

†*erosa* (Wolff), Icon. Cimic., iii, p. 89, fig. 83, 1802, *Acanthia.*
†*fasciata* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894 (part).
pensylvanica Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 163, pl. 8, [fig. 10, pl. 9, figs. 19, 20, 1897.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., D. C. (?), Fla., Ohio, Ind., Ill., Mo.

c. subsp. **arctostaphylae** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
Locality: Calif.

d. subsp. **guerini** Leth. & Sevr.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 28, 1896 (n.n. for *erosa* Guer.).
Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 164, pl. 8, figs. 12, 28, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 174, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
†*erosa* Guerin *in* Sagra, Hist. de Cuba, Ins., p. 406, 1857 (excl. vars.).
Stål, Enum. Hemip., v, p. 133, No. 12, 1876.
†*acutangula* Stål, Enum. Hemip., v, p. 133, 1876.
Localities: Fla. (West Indies.)

subsp. **carneipes** Mayr.
Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 442, 1865.
[Handlirsch thinks this species erroneously credited to "Ga." by Mayr.]

e. subsp. **severini** Handl.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 164, pl. 8, figs. 13, 31, 1897.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
Localities: Calif. (Mexico, Centr. Am.)

f. subsp. **parva** Handl.
Handlirsch, Ann. k. k. Nat. Hofm., Wien, xii, p. 165, 1897.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 11, 1914.
Localities: Calif. (Neotropical.)

g. subsp. **salicis** Ckl.
Cockerell, Entomol., xxxiii, p. 66, 1900.
Localities: Ariz., Utah.

690. **Phymata acutangula** (Guer.)
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 408, 1857, *Syrtis*.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 175, pl. 4, fig. 6, etc., 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 53, pl. 4, fig. 7, 1898.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
?longiceps Stål, Rio Jan. Hemip., i, p. 59, 1860.
Stål, Enum. Hemip., v, p. 133, 1876.
?simulans Stål, Rio. Jan. Hemip., i, p. 59, 1860.
Stål, Enum. Hemip., v, p. 133, 1876.
?acuta Stål, Rio Jan. Hemip., i, p. 60, 1860.
Stål, Enum. Hemip., v, p. 133, 1876.
Localities: Texas. (Neotropical.)

Subfamily MACROCEPHALINAE (Am. & Serv.)
Amyot and Serville, Hémip., pp. xxxix, 291, 1843, Groupe *Macrocephalides*.
Dohrn, Cat. Hemip., p. 41, 1859, *Macrocephalidae*.
Walker, Cat. Heter., vi, pp. 169, 172, 1873, Fam. *Macrocephalidae*.
Stål, Enum. Hemip., v, p. 131, 1876, Subfam. *Macrocephalina*.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 143, 1897, *Macrocephalinae*.

Genus **Macrocephalus** Swed.
Haplotype *cimicoides* Swed.
Swederus, Vet. Akad. Nya Handl., viii, p. 183, 1787.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2201, 1788.
Meyer *in* Thunberg, Charac. Genera Ins., edn. 2, p. 34, 1791.
Latreille, Genera Crust. Ins., iii, p. 137, 1807.

Latreille, Consid. Génl., p. 433, 1810 (names *manicata* pseudotype).
Le Peletier and Serville, Encyc. Méth., x, p. 120, 1825.
Latreille *in* Cuvier, Règne Anim., edn. 2, v, p. 200, note, 1829.
Leach *in* Brewster, Edinbg. Encyc., Am. edn., viii, p. 711, 1832 (for *cimi-*
Laporte, Essai, Classif. Syst. Ins., p. 15, 1832. [*coides*).
Burmeister, Handb. d. Ent., ii, p. 252, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 347, 1835.
Spinola, Essai sur les Hémip., p. 157, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 114, 1840 (names *cimicoides* type).
Westwood, Trans. Ent. Soc. Lond., iii, p. 22, 1843 (part).
Amyot and Serville, Hémip., p. 292, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 106, 1848.
Spinola, Tavola Sinot., p. 44, 1850 (excl. synon.).
Fieber, Europ. Hemip., p. 34, 1860.
Walker, Cat. Heter., vi, pp. 172, 173, 1873.
Stål, Enum. Hemip., v, pp. 132, 134, 1876.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, pp. 143, 181, 1897 (monograph).
Champion, Biol. Centr. Am., Heter., ii, p. 55, 1898.
Macrothyreus Westwood, Trans. Ent. Soc. Lond., iii, p. 30, 1843 (as sub-
[gen. orthotype *cimicioides*).

691. **Macrocephalus cimicoides** Swed.

Swederus, Vet. Akad. Nya Handl., viii, p. 185, 1787.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2201, 1788.
Latreille, Genera Crust. Ins., iii, p. 138, 1807.
Brullé, Hist. Nat. des Ins., ix, p. 348, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 114, 1840.
Westwood, Trans. Ent. Soc. Lond., iii, p. 23, pl. 2, fig. 5, 1843.
Walker, Cat. Heter., vi, p. 173, 1873.
Stål, Hemip. Fabr., i, p. 94, 1868.
Stål, Enum. Hemip., v, p. 135, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 186, pl. 9, fig. 26, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 12, 1914.
macrocephalus Lamarck, Hist. Anim. s. Vert., iii, p. 307, 1816, *Phymata.*
†*manicatus* Burmeister, Handb. d. Ent., ii, p. 252, 1835.
Localities: "Canada," "Carolina," Ga., Fla., Texas, Calif.

692. **Macrocephalus manicatus** (Fabr.)

Fabricius, Syst. Rhyng., p. 123, 1803, *Syrtis.*
Wolff, Icon. Cimic., v, p. 169, fig. 163, 1811, *Syrtis.*
Le Peletier and Serville, Encyc. Méthod., x, p. 120, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 15, 1832.
Spinola, Essai sur les Hémip., p. 157, 1837 (1840).
Herrich-Schaeffer, Wanz. Ins., viii, p. 107, fig. 878, 1848.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 187, pl. 9, fig. 25, 1897.
Localities: "Carolina," Texas.

693. **Macrocephalus notatus** Westw.

Westwood, Trans. Ent. Soc. Lond., iii, p. 24, 1843 (excl. vars.).
Stål, Enum. Hemip., v, p. 135, 1876.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 188, pl. 9, figs. 27, 28, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 56, pl. 4, fig. 10, 1898.
Barber, Brookl. Inst., Sci. Bul., i, p. 282, 1906.
ineisus Stål, Stet. Ent. Zeit., xxiii, p. 440, 1862.
Stål, Enum. Hemip., v, p. 135, 1876.
cliens Stål, Stet. Ent. Zeit., xxiii, p. 440, 1862.
Localities: Texas. (Neotropical.)

694. **Macrocephalus gracilis** Handl.

Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 193, 1897.
Locality: "N. Am."

695. **Macrocephalus prehensilis** (Fabr.)

Fabricius, Syst. Rhyng., p. 123, 1803, *Syrtis.*
Wolff, Icon. Cimic., v, p. 170, fig. 164, 1811, *Syrtis.*
Le Peletier and Serville, Encyc. Méth., x, p. 120, 1825.
Westwood, Trans. Ent. Soc. Lond., iii, p. 26, 1843.
Amyot and Serville, Hémip., p. 293, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 108, fig. 879, 1848.
Stål, Hemip. Fabr., i, p. 94, 1868.
Stål, Enum. Hemip., v, p. 135, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 324, 1876.
Handlirsch, Ann. k. k. Nat. Hofm. Wien, xii, p. 194, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 63, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 175, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 507, 1914.
pallidus Westwood, Trans. Ent. Soc. Lond., iii, p. 27, 1843.
Localities: "Carolina," Ga., Fla., Ky., Tenn., Kan., N. Mex., Texas.

696. **Macrocephalus uhleri** Handl.

Handlirsch, Verh. Zool.-Bot. Ges. Wien, xlviii, p. 383, 1898.
Banks, Cat. Nearc. Hemip., p. 52, 1910.
arizonicus Cockerell, Entomol., xxxiii, p. 66, 1900.
Locality: Ariz.

Family REDUVIIDAE (Latr.)

Latreille, Genera Crust. Ins., iii, p. 126, 1807, *Reduvini.*
Stephens, Cat. Brit. Ins., ii, p. 350, 1829, *Reduviidae.*
Laporte, Essai Classif. Syst. Hémip., p. 5, 1832, *Reduvites.*
Burmeister, Handb. d. Ent., ii, p. 218, 1835, *Reduvini.*
Brullé, Hist. Nat. des Ins., ix, p. 305, 1835, *Reduviens.*
Spinola, Essai sur les Hémip., p. 69, 1837 (1840), *Reduvites.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 99, 1840, *Reduviens.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 471, Synop., p. 120, 1840, *Reduviidae.*
Spinola, Tavola Sinot., pp. 27, 44, 1850, *Reduvitae.*
Fieber, Genera Hydroc., p. 9, 1851, *Reduvidea.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 85, 1853, *Reduvini.*
Flor, Rhyn. Livl., i, pp. 66, 675, 1860, *Reduvina.*
Fieber, Europ. Hemip., pp. 25, 40, 149, 1861, *Reduvidae.*

Stål, Hemip. Afr., iii, p. 43, 1865, *Reduviida.*
Stål, Enum. Hemip., ii, p. 66, 1872, *Reduviina.*
Stål, Enum. Hemip., iv, p. 3, 1874, *Reduviidae.*
Uhler, Check List, p. 23, 1886, *Reduvioidea.*
Puton, Cat. Hemip. Palae., p. 37, 1886, *Reduvides.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 69, 1896, *Reduvidae.* (Like [those preceding this includes the *Nabidae.*)
Champion, Biol. Centr. Am., Heter., ii, p. 162, 1898, *Reduviidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 196, 1903, *Reduviidae.*
Oshanin, Verz. Palae. Hemip., i, p. 505, 1908, *Reduviidae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910, *Reduviidae.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 16, 1911, *Reduviidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912,
Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Reduviidae.* [*Reduviidae.*
Nudicolles Latreille, Fam. Nat. Règne Anim., p. 423, 1825.
Nudirostri Amyot and Serville, Hémip., pp. xli, 314, 1843.
Dohrn, Cat. Hemip., p. 44, 1859.
Walker, Cat. Heter., vii, p. 45, 1873, *Nudirostra.*

Subfamily EMESINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlviii, 393, 1843, *Longicorxi* Groupe *Emesides.*
Spinola, Tavola Sinot., p. 45, 1850, *Emesoideae.*
Dohrn, Cat. Hemip., p. 52, 1859, *Emesina.*
Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Emesida.*
Dohrn, Linnaea Ent., xiv, p. 206, 1860, *Emesina.*
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Emesida.*
Dohrn, Linnaea Ent., xv, p. 42, 1863, *Emesina.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 44, 1872, *Emesina.*
Stål, Enum. Hemip., ii, pp. 67, 125, 1872, *Emesina.*
Walker, Cat. Heter., vii, pp. 51, 53, 86, 1873; viii, p. 144, 1873, *Emesidae.*
Stål, Enum. Hemip., iv, pp. 67, 92, 1874, *Emesina.*
Uhler, Stand. Nat. Hist., ii, p. 276, 1884, *Emesidae.*
Uhler, Check List, p. 26, 1886, *Emesidae.*
Puton, Cat. Hémip. Palae., p. 37, 1886, Tribe *Emesini.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 69, 1896, *Emesidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 162, 1898, *Emesinae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 200, 1903, *Emesinae.*
Oshanin, Verz. Palae. Hemip., i, p. 505, 1908, *Emesina.*
Banks, Psyche, xvi, p. 43, 1909, *Emesidae.*
Banks, Cat. Neare. Hemip., p. 20, 1910, *Emesidae.*
Baker, Pomona Jl. Ent., ii, p. 225, 1910.
Oshanin, Kat. Palae. Hemip., p. 48, 1912, *Emesinae.*
Ploiarini Costa, Cimic. Regn. Neap., Cent., iv, p. 66, 1852.
Kirkaldy, Fauna Hawien., iii, p. 151, 1902, *Ploiariinae.*

TRIBE *PLOIARIOLIINAE* Van D.

Van Duzee, Check List Hemip., p. 27, 1916.
Ploiariida Stål, Berl. Ent. Zeit., iii, p. 328, 1859.
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Ploeariida.*
Dohrn, Linnaea Ent., xv, p. 43, 1863, *Ploiaridae.*
Stål, Hemip. Afr., iii, p. 45, 1865.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 44, 1872, *Ploeariina.*
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 65, 1872, *Ploeariina.*
Stål, Enum. Hemip., ii, p. 67, 125, 1872, *Ploeariina.*
Stål, Enum. Hemip., iv, pp. 92, 94, 1874, Div. *Ploiariaria.*
Uhler, Check List, p. 26, 1886, *Ploearina.*
Stenolemaria Kirkaldy, Fauna Hawai., iii, p. 125, 1902 (Division).
Distant, Fauna Br. Ind., Rhyn., ii, p. 201, 1903 (Division).
Oshanin, Verz. Palae. Hemip., i, p. 505, 1908 (Division).
Oshanin, Kat. Palae. Hemip., p. 48, 1912 (Tribe).

Genus **Ploiariola** Reut.
Logotype *vagabunda* Linn.

Reuter, Rev. Synon., p. 357, No. 330, 1888 (n.n. for †*Ploiaria* Latr.).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 69, 1896.
Distant, Fauna Br. Ind., Rhyn., ii, p. 201, 1903.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 20, 1912.
Oshanin, Kat. Palae. Hemip., p. 48, 1912.
†*Gerris* Schellenberg, Land u. Wasserwanzen, p. 24, 1800.
Burmeister, Handb. d. Ent., ii, p. 223, 1835.
Flor, Rhyn. Livl., i, p. 686, 1860.
†*Ploiaria* Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.
Latreille, Genera Crust. Ins., iii, p. 130, 1807.
Latreille, Consid. Génl., p. 433, 1810 (names *vagabundus* Fabr. type).
Leach *in* Brewster's Edinbg. Encyc., ix, p. , 1815. [species).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 500, 1816 (*vagabunda* only
Laporte, Essai Classif. Syst. Hémip., p. 13, 1832 (names *vagabundus*
Herrich–Schaeffer, Nomen. Ent., i, pp. 38, 62, 1835. [type).
Brullé, Hist. Nat. des Ins., ix, p. 310, 1835.
Latreille *in* Cuvier Anim. Kingd., Lond. edn., iv, p. 167, 1836.
Spinola, Essai sur les Hémip., p. 84, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 100, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
Amyot and Serville, Hémip., p. 396, 1843.
Dohrn, Linnaea Ent., xiv, p. 214, 1860.
Fieber, Europ. Hemip., pp. 41, 149, 1861, *Ploearia.*
Dohrn, Linnaea Ent., xv, p. 55, 1863.
Douglas and Scott, Brit. Hemip., p. 534, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 65, 1872, *Ploearia.*
Stål, Enum. Hemip., iv, p. 94, 1874.
Bergroth, Verh. Zool.-Bot. Ges. Wien, lvi, p. 305, 1906.
†*Emesa* Provancher, Pet. Faune Ent. Can., iii, 185, 1888.
†*Ploiariodes* Champion, Biol. Centr. Am., Heter., ii, pp. 163, 165, 1898.
Oshanin, Verz. Palae. Hemip., i, p. 505, 1908.
Banks, Psyche, xvi, p. 45, 1909.

697. **Ploiariola errabunda** (Say)

Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 803; Compl. Writ., i, p.
Dohrn, Linnaea Ent., xv, p. 62, 1863 (copies Say's desc.). [359, *Ploiaria.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871, *Ploearia.*
Stål, Enum. Hemip., ii, p. 128, 1872 (genus?).
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Ploearia.*
Uhler, Stand. Nat. Hist., ii, p. 277, 1884, *Ploiaria.*

Uhler, Check List, p. 26, 1886, *Cerascopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 24, 1907; ix, p. 176, 1909,
Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes.* [*Ploiariodes.*
Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
Van Duzee, Can. Ent., xliv, p. 324, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
maculata Haldemann, Proc. Acad. Nat. Sci., Phila., iii, p. 151, 1847, [*Ploiaria.*
†*longipes* Provancher, Pet. Faune Ent. Can., iii, p. 186, 1888, *Emesa.*
Localities: Quebec, N. H., Pa., Md., Va.

698. **Ploiariola tuberculata** Banks

Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes.*
Parshley, Psyche, xxi, p. 144, 1914, *Ploiariodes.*
Localities: Me., N. Y., Va.

699. **Ploiariola californica** Banks.

Banks, Psyche, xvi, p. 46, 1909, *Ploiariodes.*
Baker, Pomona Jl. Ent., ii, p. 227, 1910, *Ploiariodes.*
Locality: Calif.

700. **Ploiariola hirtipes** Banks

Banks, Psyche, xix, p. 97, 1912, *Ploiariodes.*
Locality: Vt.

Genus **Stenolemus** Sign.
Haplotype *spinicollis* Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vi, p. 251, 1858.
Dohrn, Linnaea Ent., xiv, p. 250, 1860.
Stål, Enum. Hemip., ii, p. 125, 1872; iv, pp. 92, 94, 1874.
Champion, Biol. Centr. Am., Heter., ii, pp. 163, 164, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 203, 1903.
Bergroth, Psyche, xviii, p. 17, 1911.
Bergroth, Ann. Am. Mus. Nat. Hist., xxxi, p. 348, 1912.
Phantasmatophanes Kirkaldy, Proc. Linn. Soc. N. S. Wales, xxxiii, p. 369, [1908 (orthotype *muiri* Kirk.).

701. **Stenolemus spiniventris** Sign.

Signoret, Ann. Soc. Ent. Fr., Ser. 3, vi, p. 253, pl. 6, figs. 1–3, 1858.
Dohrn, Linnaea Ent., xiv, p. 250, 1860.
Stål, Enum. Hemip., ii, p. 125, 1872.
Uhler, Stand. Nat. Hist., ii, p. 277, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 164, 1898.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: Ariz., Fla. (Mexico.)

TRIBE *LEISTARCHINI* (Stål)

Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Leistarchida.*
Stål, Enum. Hemip., iv, p. 92, 1874, Div. *Leistarcharia.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 207, 1903, Div. *Leistarcharia.*
Oshanin, Verz. Palae. Hemip., i, p. 509, 1908, Div. *Leistarcharia.*
Oshanin, Kat. Palae. Hemip., p. 49, 1912, Div. *Leistarcharia.*

Genus **Ploiaria** Scop.
Haplotype *domestica* Scop.

Scopoli Del. Flora Fauna Insubr., i, p. 60, 1786.
Reuter, Rev. Synon., p. 359, No. 332, 1888.
Noualhier, Revue d'Ent., xiv, p. 166, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 174, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 209, 1903.
Banks, Psyche, xvi, p. 44, 1909.
Cerascopus Heineken, Zool. Jl., v, p. 36, 1830.
Stål, Hemip. Afr., iii, p. 163, 1865.
Stål, Enum. Hemip., ii, pp. 126, 127, 1872; iv, pp. 93, 95, 1874.
Emesodema Spinola, Essai sur les Hémip., p. 87, 1837 (1840).
Spinola, Tavola Sinot., p. 45, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, p. 115, 1853.
Dohrn, Linnaea Ent., xiv, pp. 213, 246, 1860.

702. **Ploiaria simplicipes** Uhl.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 430, 1878, *Emesodema*.
Uhler, Check List, p. 26, 1886, *Barce*.
Bueno, Jl. N. E. Ent. Soc., xvi, p. 234, 1908, *Barce*.
Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910, *Barce*.
Localities: Mass., N. Y.

703. **Ploiaria texana** Banks
Banks, Psyche, xvi, p. 44, 1909.
Locality: Texas.

704. **Ploiaria arizonensis** (Banks)
Banks, Psyche, xvi, p. 45, 1909, *Luteva*.
Locality: Calif.

705. **Ploiaria californiensis** Bak.
Baker, Pomona Jl. Ent., ii, p. 226, 1910.
Locality: Calif.

Genus **Ploiariopsis** Champ.
Logotype *megalops* Champ.

Champion, Biol. Centr. Am., Heter., ii, pp. 163, 173, 1898.
Banks, Psyche, xvi, pp. 43, 44, 1909.

706. **Ploiariopsis hirticornis** Banks
Banks, Psyche, xvi, p. 44, 1909.
Locality: N. C.

707. **Ploiariopsis reticulata** Bak.
Baker, Pomona Jl. Ent., ii, p. 225, 1910.
Locality: Calif.

Genus **Luteva** Dohrn
Logotype *concolor* Dohrn

Dohrn, Linnaea Ent., xiv, pp. 213, 242, 1860.
Stål, Enum. Hemip., ii, pp. 126, 127, 1872; iv, pp. 93, 95, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 163, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 208, 1903.
Banks, Psyche, xvi, pp. 43, 45, 1909.

708. **Luteva carolina** H. S.

Herrich-Schaeffer, Wanz. Ins., ix, p. 115, fig. 936, 1853, *Emosodema.*
Dohrn, Linnaea Ent., xiv, p. 250, 1860, *Emesodema.*
Stål, Enum. Hemip., ii, p. 127, 1872.
Bergroth, Psyche, xviii, p. 19, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Ploiaria.*
Locality: "Carolina," Fla.

TRIBE *EMESINI* (Dohrn)

Dohrn, Linnaea Ent., xiv, p. 253, 1860, *Emesida.*
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862, *Emesida.*
Dohrn, Linnaea Ent., xv, p. 43, 1863, *Emesidae.*
Stål, Hemip. Afr., iii, pp. 45, 162, 1865.
Stål, Enum. Hemip., iv, p. 93, 1874.
Distant, Fauna Br. Ind., Rhyn., ii, p. 210, 1903.

Genus **Emesa** Fabr.
Orthotype *precatoria* Fabr.

Fabricius, Syst. Rhyng., p. 263, 1803. [type).
Laporte, Essai Classif. Syst. Hémip., p. 84, 1832 (names *mantis* Fabr. pseudo-
Burmeister, Handb. d. Ent., ii, p. 223, 1835.
Spinola, Essai sur les Hémip., p. 90, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 99, 1840.
Amyot and Serville, Hémip., p. 393, 1843.
Spinola, Tavola Sinot., p. 45, 1850.
Herrich-Schaeffer, Wanz. Ins., ix, p. 113, 1853.
Dohrn, Linnaea Ent., xiv, p. 215, 1860.
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862.
Stål, Hemip. Afr., iii, p. 162, 1865.
Stål, Of. Vet. Akad. Forh., xxvii, p. 704, 1870.
Stål, Enum. Hemip., ii, pp. 125, 126, 1872.
Walker, Cat. Heter., vii, pp. 51, 86, 1873; viii, pp. 144, 145, 1873.
Champion, Biol. Centr. Am., Heter., ii, pp. 163, 168, 1898.
†*Ploiaria* Say, Am. Entomol., iii, pl. 47, 1828; Compl. Writ., i, p. 105.

709. **Emesa brevipennis** (Say)

Say, Am. Entomol., iii, pl. 47, 1828; Compl. Writ., i, p. 106, *Ploiaria.*
Dohrn, Linnaea Ent., xiv, p. 220, 1860.
Walker, Cat. Heter., viii, p. 145, 1873.
‖*longipes* De Geer, Mémoirs, iii, p. 352, pl. 35, figs. 16, 17, 1773, *Cimex.*
Goeze, Ent. Beytr., ii, p. 273, No. 10, 1778, *Cimex.*
Retzius, Genera Spec. Ins., p. 89, 1783, *Cimex.*
Burmeister, Handb. d. Ent., ii, p. 223, 1835.
Dohrn, Linnaea Ent., xiv, p. 221, 1860.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871.
Stål, Enum. Hemip., ii, p. 126, 1872.
Walker, Cat. Heter., viii, p. 146, 1873 (part).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 429, 1878.
Uhler, Stand. Nat. Hist., ii, p. 276, 1884.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 287, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 168, pl. 10, figs. 13, 14, 1898.

Barber, Brookl. Inst. Sci. Bul., vi, p. 283, 1906.
Bueno, Jl. N. Y. Ent. Soc., p. 234, 1908.
Wickham, Ottawa Nat., xxii, p. 255, 1909.
Banks, Psyche, xvi, p. 48, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
Wickham, Ent. News, xxi, p. 27, 1910 (habits).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
†*filum* Gray *in* Griffiths' Anim. Kingd., xv, p. 244, pl. 97, fig. 3, 1832.
pia Amyot and Serville, Hémip., p. 394, 1843.
Herrich-Schaeffer, Wanz. Ins., ix, p. 114, 1853.
Dohrn, Linnaea Ent., xiv, p. 231, 1860.
affinis Dohrn, Linnaea Ent., xiv, p. 222, 1860. [Dohrn).
choctawana Kirkaldy, Can. Ent., xli, p. 388, 1909 (n.n. for *brevipennis*
Localities: Mass., Conn., N. Y., N. J., Pa., Md., N. C., Fla., Ind., Ill., Ia., Texas.

710. **Emesa brevicoxa** Banks

Banks, Psyche, xvi, p. 48, 1909.
Locality: Calif.

Genus **Ghilianella** Spin.
Haplotype *filiventris* Spin.

Spinola, Generi Ins. Arthr., p. 142, 1852.
Dohrn, Linnaea Ent., xiv, p. 236, 1860.
Stål, Of. Vet. Akad. Forh., xix, p. 504, 1862; xxvii, p. 704, 1870.
Stål, Hemip. Afr., iii, p. 162, 1865.
Stål, Enum. Hemip., ii, p. 126, 1872.
Walker, Cat. Heter., vii, p. 86, 1873; viii, pp. 144, 147, 1873.
Champion, Biol. Centr. Am., Heter., ii, pp. 163, 169, 1898.

711. **Ghilianella productilis** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Locality: Fla.

Genus **Gardena** Dohrn
Haplotype *melinarthrum* Dohrn

Dohrn, Linnaea Ent., xiv, p. 214, 1860.
Stål, Of. Vet. Akad. Forh., xxvii, p. 704, 1870.
Stål, Enum. Hemip., iv, p. 93, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 167, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 214, 1903.

712. **Gardena americana** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 167, pl. 10, fig. 12, 1898.
Banks, Cat. Neare. Hemip., p. 21, 1910.
Localities: Texas(?) (Banks). (Neotropical.)

Genus **Barce** Stål
Haplotype *annulipes* Stål

Stål, Hemip. Afr., iii, p. 163, 1865 (invalid here).
Stål, Berl. Ent. Zeit., x, p. 168, 1867 (valid here).
Stål, Enum. Hemip., ii, pp. 125, 127, 1872.
Banks, Psyche, pp. 43, 46, 1909.

713. **Barce annulipes** Stål

Stål, Berl. Ent. Zeit., x, p. 168, 1867.
Stål, Enum. Hemip., ii, p. 127, 1872.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908.
Banks, Psyche, xvi, p. 47, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
†*errabundus* Provancher, Pet. Faune Ent. Can., iii, p. 186, 1888, *Cerascopus.*
Barce sp., Van Duzee, Can. Ent., xliv, p. 324, 1912.
Localities: Quebec, Ont., N. Y., N. J., Va., La., Wis.

714. **Barce uhleri** Banks

Banks, Psyche, xvi, p. 47, 1909.
a. var. **brunnea** Banks
Banks, Psyche, xvi, p. 47, 1909 (as var. of *uhleri*).
Localities: N. Y., N. J., Va., N. C.

715. **Barce fraterna** (Say)

Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p. [358, *Ploiaria.*
Banks, Psyche, xvi, p. 47, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: Mass., N. Y., Md., Va., N. C., Kan., La.

716. **Barce banski** Bak.

Baker, Pomona Jl. Ent., ii, p. 227, 1910.
Locality: Calif.

Subfamily SAICINAE (Stål)

Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Saicida.*
Dohrn, Linnaea Ent., xiv, pp. 253, 254, 1860, *Saicidae.*
Stål, Hemip. Afr., iii, pp. 44, 161, 1865, *Saicida.*
Stål, Hemip. Fabr., i, p. 129, 1868, *Saicida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 44, 47, 1872, *Saicina.*
Stål, Enum. Hemip., ii, pp. 44, 124, 1872; iv, pp. 4, 90, 1874, *Saicina.*
Uhler, Check List, p. 26, 1886, *Saicina.*
Puton, Cat. Hemip. Palae., edn. 3, p. 37, 1886, Div. *Saicaria.*
Lethierry and Severin, Cat. Génl. Hémip.. iii, p. 78, 1896, *Saicidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 176, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 217, 1903.
Oshanin, Verz. Palae. Hemip., i, p. 512, 1908, *Saicina.*
Oshanin, Kat. Palae. Hemip., p. 49, 1912, *Saicinae.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 219, 1913, *Saicinae.*

Genus **Oncerotrachelus** Stål
Orthotype *acuminatus* Say

Stål, Hemip. Fabr., i, p. 130, 1868.
Stål, Enum. Hemip., ii, p. 124, 1872; iv, p. 91, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 180, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, p. 226, 1913.

717. **Oncerotrachelus acuminatus** (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 800; Compl. Writ., i,
Stål, Hemip. Fabr., i, p. 130, 1868. [p. 356, *Reduvius.*

Stål, Enum. Hemip., ii, p. 124, 1872.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878.
Uhler, Stand. Nat. Hist., ii, p. 279, 1884.
Barber, Brookl. Inst. Sci. Bul., i, p. 283, 1906.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 153, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 226, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: Mass., N. Y., N. J., Pa., Md., D. C., N. C., S. C., Fla., Ind., Minn., Texas.

Genus **Saica** Am. & Serv.
Haplotype *rubella* Am. & Serv.

Amyot and Serville, Hémip., p. 371, 1843.
Stål, Hemip. Afr., iii, p. 161, 1865.
Stål, Hemip. Fabr., i, p. 129, 1868.
Walker, Cat. Heter., viii, p. 127, 1873.
Stål, Enum. Hemip., ii, p. 124, 1873; iv, p. 91, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 176, 1898.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.

718. **Saica fusco-vittata** Barb.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.
Locality: Fla.

Subfamily STENOPODINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlviii, 386, 1843, *Stenopodides.*
Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Stenopodida.*
Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859, *Stenopodida.*
Dohrn, Cat. Hemip., p. 47, 1859, *Stenopodidae.*
Stål, Hemip. Afr., iii, pp. 44, 148, 1865, *Stenopodida.*
Stål, Hemip. Fabr., i, p. 126, 1868, *Stenopodida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 144, 1868, *Stenopodida.*
Stål, Enum. Hemip., ii, p. 120, 1872, *Stenopodina.*
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 64, 1872, *Stenopodina.*
Stål, Enum. Hemip., iv, pp. 4, 83, 1874, *Stenopodina.*
Uhler, Stand. Nat. Hist., ii, p. 278, 1884, *Stenopodina.*
Uhler, Check List, p. 25, 1886, *Stenopodina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 81, 1896, *Stenopodidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 181, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 222, 1903.
Oshanin, Verz. Palae Hemip., i, p. 513, 1908, *Stenopodina.*
Oshanin, Kat. Palae. Hemip., p. 49, 1912.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 226, 1913.

Genus **Pnirontis** Stål
Logotype *scutellaris* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 381, 1859.
Stål, Hemip. Afr., iii, p. 149, 1865.
Stål, Hemip. Fabr., i, p. 126, 1868.
Stål, Enum. Hemip., ii, p. 120, 1872.
Walker, Cat. Heter., viii, p. 34, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 181, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 226, 1913.

Subgenus **Centromelus** Fieb.
Haplotype *spinosissimus* Kol.

Fieber, Europ. Hemip., pp. 42, 151, 1861 (as genus).
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 147, 1868 (as genus).
Berg, Hemip. Argent., p. 173, 1879 (as genus).
Stål, Hemip. Fabr., i, p. 128, 1868.
Oshanin, Verz. Palae. Hemip., i, p. 515, 1908.

719. **Pnirontis languida** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 381, 1859.
Stål, Hemip. Fabr., i, p. 129, 1868.
Stål, Enum. Hemip., ii, p. 120, 1872.
Walker, Cat. Heter., viii, p. 34, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Centromelus.*
Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 16, fig. 13, 1898.
Barber, Brookl. Inst., Sci. Bul., i, p. 283, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: Ga., S. C., Fla., Texas.

720. **Pnirontis infirma** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 382, 1859.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 147, 1868, *Centromelus.*
Stål, Hemip. Fabr., i, p. 129, 1868.
Stål, Enum. Hemip., ii, p. 120, 1872.
Walker, Cat. Heter., viii, p. 34, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 11, figs. 11, 12, 1898.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 283, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 504, 1914.
?spinosissima Kolenati, Melet, Ent., Fasc. iv, p. 51, 1857, *Pygolampis.*
Fieber, Europ. Hemip., p. 151, 1861, *Centromelas.*
Localities: N. J., "Carolina," Ga., Fla., Texas. (Europe by error.)

721. **Pnirontis modesta** Banks

Banks, Ent. News, xxi, p. 324, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: Va., Fla., Ind.

Genus **Pygolampis** Germ.
Type *denticulatus* Germ. = *bidentata* (Goeze)

Germar, Fauna Europ., viii, p. 22, 1824.
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 1835.
Burmeister, Handb. d. Ent., ii, p. 243, 1835. [*denticulatus* type).
Brullé, Hist. Nat. des Ins., ix, p. 324, 1835 (as subgen. of *Stenopoda;* names
Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840 (as subgen. of *Stenopoda*).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *denticu-*
Amyot and Serville, Hémip., p. 391, 1843. [*latus* type).
Stål, Of. Vet. Akad. Forh., xvi, p. 378, 1859.
Fieber, Europ. Hemip., pp. 41, 150, 1861.
Stål, Hemip. Afr., iii, p. 149, 1865.
Douglas and Scott, Brit. Hemip., p. 538, 1865.

Stål, Hemip. Fabr., i, p. 126, 1868.
Stål, Enum. Hemip., ii, p. 121, 1872.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 47, 1872.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 64, 1872.
Walker, Cat. Heter., viii, p. 33, 1873.
Stål, Enum. Hemip., iv, pp. 84, 85, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 183, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 222, 1903.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.
Ochetopus Hahn, Wanz. Ins., i, p. 176, 1831. (Haplotype *spinicollis* Hahn.)
Spinola, Essai sur les Hémip., p. 71, 1837.
Spinola, Tavola Sinot., p. 46, 1850.

722. **Pygolampis spurca** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 379, 1859.
Stål, Enum. Hemip., ii, p. 121, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 183, pl. 11, figs. 14, 15, 1898.
Localities: "S. St." (Neotropical.)

723. **Pygolampis sericea** Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 378, 380, 1859.
Stål, Enum. Hemip., ii, p. 121, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Bueno and Brimley, Ent. News, xviii, p. 436, 1907.
Localities: Mass., N. Y., Pa., Md., N. C., S. C., Texas.

724. **Pygolampis pectoralis** (Say)

Say, Ins. of La., p. 11, 1832; Heter. N. Harm., p. 33, 1832; Fitch reprint, p. [802, *Reduvius.*
Say *in* Compl. Writ., i, pp. 306, 357, *Reduvius.*
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
Stål, Enum. Hemip., ii, p. 121, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 429, 1878.
Gillette and Baker, Hemip. Colo., p. 60, 1895.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Parshley, Psyche, xxi, p. 144, 1914.
fuscipennis Stål, Of. Vet. Akad. Forh., xvi, p. 379, 1859.
Localities: Me., Mass., N. Y., N. J., Del., Md., S. C., Fla., Ill., Colo., La., Texas, Ariz., Calif.

Genus **Gnathobleda** Stål
Haplotype *fraudulenta* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 380, 1859.
Stål, Hemip. Fabr., i, p. 126, 1868.
Stål, Enum. Hemip., ii, p. 121, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 184, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.

725. **Gnathobleda tumidula** Stål

Stål, Enum. Hemip., ii, p. 121, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Fracker, Proc. Ia. Acad. Sci., xix, p. 227, 1913.
Localities: Ga., Texas.

Genus **Schumannia** Champ.
Haplotype *mexicana* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 185, 1898.

726. **Schumannia mexicana** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 185, pl. 11, fig. 18, 1898.
Bueno and Brimley, Ent. News, xviii, p. 436, 1907.
Localities: N. C. (Mexico.)

Genus **Stenopoda** Lap.
Orthotype *cinerea* Lap. = *culiciformis* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 26, 1832.
Burmeister, Handb. d. Ent., ii, p. 243, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 323, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840.
Amyot and Serville, Hémip., p. 390, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 90, 1848.
Spinola, Tavola Sinot., p. 46, 1850.
Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859.
Stål, Hemip. Afr., iii, p. 149, 1865.
Stål, Hemip. Fabr., i, p. 127, 1868.
Stål, Enum. Hemip., ii, p. 122, 1872.
Walker, Cat. Heter., viii, p. 30, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 187, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 227, 1913.

727. **Stenopoda culiciformis** (Fabr.)

Fabricius, Syst. Ent., p. 728, 1775, *Cimex*.
Goeze, Ent. Beytr., ii, p. 272, 1778, *Cimex*.
Fabricius, Spec. Ins., ii, p. 376, 1781, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 308, 1787, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2193, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 189, 1794, *Gerris*.
Fabricius, Syst. Rhyng., p. 262, 1803, *Gerris*.
Stål, Hemip. Fabr., i, p. 129, 1868.
Stål, Enum. Hemip., ii, p. 122, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
Uhler, Stand. Nat. Hist., ii, p. 278, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 287, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 187, 1898.
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
cinerea, Laporte, Essai Classif. Syst. Hémip., p. 26, pl. 52, fig. 2, 1832.
Burmeister, Handb. d. Ent., ii, p. 244, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 323, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840.
Uhler, Hayden's Surv. Terr. for 1871, p. 421, 1872.
subinermis Stål, Of. Vet. Akad. Forh., xvi, p. 384, 1859.
Stål, Enum. Hemip., ii, p. 122, 1872.

†*cana* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.
§*culicis* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
Localities: N. J., N. C., Ga., Fla., Ala., Ark., Texas, Okl.

Genus **Oncocephalus** Klug
Type *notatus* Klug

Klug, Symb. Physicae, Ins., ii, p. , 1830 (as subgen. of *Reduvius*).
Burmeister, Handb. d. Ent., ii, p. 242, 1835.
Spinola, Essai sur les Hémip., p. 101, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840 (subgen. of *Stenopoda*).
Amyot and Serville, Hémip., p. 386, 1843.
Spinola, Tavola Sinot., p. 46, 1850.
Fieber, Europ. Hemip., pp. 42, 151, 1861.
Stål, Hemip. Afr., iii, pp. 150, 155, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 47, 1872.
Walker, Cat. Heter., vii, pp. 50, 78; viii, p. 23, 1873.
Stål, Enum. Hemip., iv, pp. 84, 87, 1874.
Reuter, Monog. Oncoceph., p. 3, 1882 (*in* Acta Soc. Sci. Fenn., xii).
Distant, Fauna Br. Ind., Rhyn., ii, p. 227, 1903.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 222, 228, 1913.
Baebius Stål, Hemip. Afr., iii, pp. 150, 154, 1865.
†*Spilolonius* Stål, Hemip. Fabr., i, p. 128, 1868.
Stål, Enum. Hemip., ii, p. 123, 1872.

728. **Oncocephalus geniculatus** (Stål)

Stål, Enum. Hemip., ii, p. 123, 1872, *Spilolonius*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876, *Spilolonius*.
Reuter, Monog. Oncoceph., p. 55, 1872.
Gillette and Baker, Hemip. Colo., p. 60, 1895, *Spilolonius*.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: Fla., Texas, Colo.

729. **Oncocephalus apiculatus** Reut.

Reuter, Monog. Oncoceph., p. 56, 1882.
Locality: Mo.

730. **Oncocephalus nubilus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 12, 1914.
Localities: Ariz., Calif.

Genus **Narvesus** Stål
Haplotype *carolinensis* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 383, 384, 1859.
Stål, Hemip. Fabr., i, p. 128, 1868.
Stål, Enum. Hemip., ii, p. 124, 1872.
Walker, Cat. Heter., viii, pp. 30, 31, 1873.
Reuter, Monog. Oncoceph., p. 76, 1882 (Acta Soc. Sci. Fenn., xii, p. 675).
Champion, Biol. Centr. Am., Heter., ii, p. 188, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.

731. **Narvesus carolinensis** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 385, 1859.
Stål, Enum. Hemip., ii, p. 124, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 332, 1876.
Reuter, Monog. Oncoceph., p. 76, 1882.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 210.
Champion, Biol. Centr. Am., Heter., ii, p. 188, pl. 11, fig. 19, 1898.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 228, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: N. J., S. C., Fla., Mo., Texas, Ariz.

Genus **Diaditus** Stål
Haplotype *semicolon* Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 383, 1859.
Stål, Hemip. Fabr., i, p. 128, 1868.
Stål, Enum. Hemip., ii, p. 125, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 188, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 226, 1903.
Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.

732. **Diaditus pictipes Champ.**

Champion, Biol. Centr. Am., Heter., ii, p. 189, pl. 11, fig. 21, 1898.
Barber, Brookl. Inst. Sci. Bul., i, p. 284, 1906.
Fracker, Proc. Ia. Acad. Sci., xix, p. 228, 1913.
Localities: Texas. (Mexico.)

Subfamily REDUVIINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xliii, 333, 1843, Groupe *Reduvides.*
Spinola, Tavola Sinot., p. 145, 1850, Subfam. *Reduvioideae.*
Puton, Synop. Heter. Fr., i, p. 168, 1879, Div. *Reduviaria.*
Reuter, Revue d'Ent., vi, p. 157, 1887, *Rediviina.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 248, 1904, *Reduviinae.*
Oshanin, Verz. Palae. Hemip., i, p. 522, 1908, *Reduviina.*
Oshanin, Kat. Palae. Hemip., p. 50, 1912, *Reduviinae.*
Acanthaspidida Stål, Hemip. Afr., iii, p. 44, 1865.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872, *Acanthaspidina.*
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872, *Acanthaspidida.*
Stål, Enum. Hemip., ii, p. 108, 1872; iv, pp. 4, 63, 1876, *Acanthaspidina.*
Uhler, Check List, p. 25, 1886, *Acanthaspidina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 95, 1896, *Acanthaspidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 190, 1898, *Acanthaspidinae.*
Conorhinini Banks, Cat. Nearc. Hemip., p. 17, 1910.

Genus **Reduvius** Fabr.
Logotype *personatus* Linn.

Fabricius, Syst. Ent., p. 729, 1775.
Fabricius, Ent. Syst., iv, p. 193, 1794.
Latreille, Précis, p. 84, 1796.
Lamarck, Syst. Anim. s. Vert., p. 294, 1801 (names *personatus* type).

Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802 (names *personatus* example).
Walckenaer, Faune Paris., Ins., ii, p. 351, 1802.
Stål, Syst. Rhyng., p. 266, 1803 (names *fuscipes* pseudotype).
Latreille, Hist. Nat. Crust. Ins., xii, p. 257, 1804.
Latreille, Genera Crust. Ins., iii, p. 128, 1807.
Fallén, Monog. Cimic., p. 119, 1807.
Latreille, Consid. Génl., pp. 256, 433, 1810 (names *personatus* type).
Leach, Brewster's Edinbg. Encyc., ix, p. , 1815.
Fallén, Hemip. Suec., Cimic., p. 155, 1829.
Latreille, Cuvier, Règne Animal, edn. 2, v, p. 202, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 7, 1832 (names *personatus* type).
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832 (for *per-*
Hahn, Wanz. Ins., ii, p. 16, 1834. [*sonatus*).
Herrich-Schaeffer, Nomen. Ent., 1, pp. 38, 61, 1835.
Burmeister, Handb. d. Ent., ii, p. 234, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 318, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 166, 1836.
Spinola, Essai sur les Hémip., p. 120, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 103, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
Amyot and Serville, Hémip., p. 337, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 40, 1848.
Spinola, Tavola Sinot., p. 46, 1850.
Flor, Rhyn. Livl., i, p. 677, 1860.
Fieber, Europ. Hemip., pp. 42, 155, 1861.
Puton, Synop. Heter. Fr., i, p. 173, 1879.
Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.
Reuter, Rev. Synon., p. 354, No. 326, 1888.
Reuter, Monog. Reduvius, p. 3, 1892 (Acta Soc. Sci. Fenn., xix, No. 15).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 97, 1896.
Distant, Fauna Br. Ind., Rhyn., ii, p. 250, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 528, 1908.
Oshanin, Kat. Palae. Hemip., p. 51, 1912.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 229, 1913.

Opsicoctus Klug, Symb. Physicae, Ins., ii, p. , 1830.
Stål, Of. Vet. Akad. Forh., xvi, p. 191, 1859.
Stål, Hemip. Afr., iii, pp. 122, 138, 1865.
Stål, Hemip. Fabr., i, p. 124, 1868.
Stål, Enum. Hemip., ii, pp. 109, 119, 1872.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872.
Stål, Enum. Hemip., iv, pp. 66, 77, 1874.
Uhler, Check List, p. 25, 1886.

Oplistopus Jakowlef, Horae Soc. Ent. Ross., viii, p. 78, 1874.

733. **Reduvius personatus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 446, 1758, *Cimex*.
Sulzer, Kennz. der Ins., pl. 11, fig. 74, 1761, *Cimex*.
Linnaeus, Fauna Suec., 2nd. edn., p. 252, No. 941, 1761, *Cimex*.
Geoffroy, Hist. Abreg. des Ins., i, p. 436, No. 4, 1762 (La Punaise mouche).
Scopoli, Ent. Carn., p. 130, 1763, *Cimex*.

Fabricius, Syst. Ent., p. 730, 1775.
Fourcroy, Ent. Paris., i, p. 195, 1785, *Cimex.*
Fabricius, Ent. Syst., iv, p. 194, 1794.
Lamarck, Syst. Anim. s. Vert., p. 294, 1801.
Wolff, Icon. Cimic., ii, p. 79, fig. 76, 1801.
Schrank, Fauna Boic., p. 100, 1801.
Walckenaer, Fauna Paris., ii, p. 352, 1802.
Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.
Fabricius, Syst. Rhyng., p. 267, 1803.
Panzer, Fauna Germ., Fasc. 88, fig. 22, 1804.
Latreille, Hist. Nat. Crust. Ins., xii, p. 258, 1804.
Latreille, Genera Crust. Ins., iii, p. 129, 1807.
Fallén, Monog. Cimic. Suec., p. 120, 1807.
Fallén Hemip. Suec., Cimic., p. 156, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 8, 1832.
Hahn, Wanz. Ins., ii, p. 17, fig. 125, 1834.
Herrich–Schaeffer, Nomen. Ent., i, p. 61, 1835.
Burmeister, Handb. d. Ent., ii, p. 235, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 319, 1835.
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 166, 1836.
Spinola, Essai sur les Hémip., p. 120, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 104, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840.
Amyot and Serville, Hémip., p. 337, 1843.
Stål, Of. Vet. Akad. Forh., xvi, p. 191, 1859, *Opsicoetus.*
Flor, Rhyn. Livl., i, p. 679, 1860.
Fieber, Europ. Hemip., p. 155, 1861.
Douglas and Scott, Brit. Hemip., p. 344, 1865.
Stål, Hemip. Fabr., i, p. 125, 1868, *Opsicoetus.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872, *Opsicoetus.*
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 63, 1872, *Opsicoetus.*
Walker, Cat. Heter., vii, p. 180, 1873.
Stål, Enum. Hemip., iv, p. 77, 1874, *Opsicoetus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878.
Uhler, Stand. Nat. Hist., ii, p. 280, 1884, *Opsicoetus.*
Provancher, Pet. Faune Ent. Can., iii, p. 184, 1887, *Opsicoetus.*
Reuter, Revue Synon., p. 354, No. 326, 1888.
Reuter, Monog. Reduvius, p. 7, 1892 (Acta Soc. Sci. Fenn., xix, No. 15).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894 *Opsicoetus.*
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Van Duzee, Can. Ent., xliv, p. 324, 1912.
Fracker, Proc. Ia. Acad. Sci., xix, p. 229, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.

†*ater* (Poda), Ins. Graec., p. 67, 1761, *Cimex.*
quisquilius (De Geer), Memoirs, iii, p. 282, pl. 15, figs. 1–9, 1773, *Cimex.*
Retzius, Genera et Spec. Ins., p. 86, 1783, *Cimex.*
annulata (Harris), Expos. Eng. Ins., p. 89, pl. 26, fig. 5, 1781, *Cimex.*
villosus Thunbg. Diss. Ent. Nova Ins., ii, p. 35, 1783, *Cimex.*
†*pungens* (Stål), Enum. Hemip., ii, p. 119, 1872, *Opsicoetus.*
albosignatus Provancher, Nat. Can., iv, p. 105, 1872.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Ga., Fla., Kan. (Palaearctic.)

734. **Reduvius senilis** Van D.

Van Duzee, Ent. News, xvii, p. 390, 1906.
Fracker, Proc. Ia. Acad. Sci., xix, p. 229, 1913.
Locality: Ariz.

Genus **Meccus** Stål
Logotype *phyllosoma* Burm.

Stål, Berl. Ent. Zeit., iii, p. 105, 1859.
Stål, Hemip. Fabr., i, p. 123, 1868.
Stål, Enum. Hemip., ii, pp. 108, 110, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 209, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

735. **Meccus phyllosomus** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 246, 1835, *Conorhinus*.
Stål, Berl. Ent. Zeit., iii, p. 105, 1859.
Stål, Enum. Hemip., ii, p. 110, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 209, pl. 12, figs. 25, 26, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 232, 1913.
Localities: Calif. (Mexico.)

Genus **Triatoma** Lap.
Orthotype *gigas* Fabr. = *rubrofasciatus* (De Geer)

Laporte, Essai Classif. Syst. Hémip., p. 11, 1832.
†*Nabis* Leach, Brewster's Edinbg. Encyc., ix, p. , 1815 (for *gigas* Wolff).
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832 (for [*gigas*).
Conorhinus Laporte, Essai Classif. Syst. Hémip., p. 77, 1832 (n.n. for [*Triatoma* Lap.).
Burmeister, Handb. d. Ent., ii, p. 245, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 324, 1835.
Spinola, Essai sur les Hémip., p. 108, 1837 (1840).
Amyot and Serville, Hémip., p. 383, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 69, 1848.
Spinola, Tavola Sinot., p. 46, 1850.
Stål, Berl. Ent. Zeit., iii, p. 106, 1859.
Stål, Hemip. Afr., iii, p. 120, 1865.
Stål, Hemip. Fabr., i, p. 123, 1868.
Stål, Enum. Hemip., ii, pp. 108, 111, 1872.
Walker, Cat. Heter., vii, pp. 50, 81, 1873; viii, p. 12, 1873.
Stål, Enum. Hemip., iv, p. 64, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 206, 1899.
Distant, Fauna Br. Ind., Rhyn., ii, p. 285, 1904.

736. **Triatoma variegata** (Drury)

Drury, Illust. Exot. Ent., i, p. 109, pl. 45, fig. 5, 1770, *Cimex*.
Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 428, 1878, *Conorhinus*.

Snow, Trans. Kan. Acad. Sci., xx, pt. 2, 160, 1907, *Conorhinus.*
claviger (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2179, 1788,
lecticularius Stål, Berl. Ent. Zeit., iii, p. 107, 1859, *Conorhinus.* [*Cimex.*
‡*lenticularius* Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus.*
Localities: Md., N. C., S. C., Ga., Fla., La., Ill., Okl., Texas, Ariz., Calif.

737. **Triatoma maxima** (Uhler)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 286, 1894, *Conorhinus.*
? Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907, *Conorhinus.*
Localities: Calif., Ariz.(?). (Mexico.)

738. **Triatoma sanguisuga** (Lec.)

Leconte, Proc. Acad. Nat. Sci. Phila., vii, p. 404, 1855, *Conorhinus.*
Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus.*
Marlatt, U. S. Dept. Agr., Div. Ent., Bul. iv, p. 38, 1896, *Conorhinus.*
Champion, Biol. Centr. Am., Heter., ii, p. 207, 1899, *Conorhinus.*
Bueno and Brimley, Ent. News, xviii, p. 436, 1907, *Conorhinus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909, *Conorhinus.*
Bueno and Englehardt, Can. Ent., xlii, p. 151, 1910, *Conorhinus.*
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910, *Conorhinus.*
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 134, 1911 (egg), *Conorhinus.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Conorhinus.*
lateralis (Stål), Berl. Ent. Zeit., iii, p. 107, 1859, *Conorhinus.*
Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus.*
Localities: N. J., Md., Va., N. C., Fla., Ill., Texas.

739. **Triatoma rubida** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 285, 1894, *Conorhinus.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus.*
Localities: Ariz. (Mexico.)

740. **Triatoma protracta** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894, *Conorhinus.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914, *Conorhinus.*
Localities: Calif. (Mexico.)

741. **Triatoma gerstaeckeri** (Stål)

Stål, Berl. Ent. Zeit., iii, p. 111, 1859, *Conorhinus.*
Stål, Hemip. Fabr., i, p. 124, 1868, *Conorhinus.*
Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus.*
Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906, *Conorhinus.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 231, 1913, *Conorhinus.*
Locality: Texas.

742. **Triatoma rufofasciata** (De Geer)

De Geer, Mémoires, iii, p. 349, pl. 35, fig. 12, 1773, *Cimex.*
Goeze, Ent. Beytr., ii, p. 270, 1778, *Cimex.*
Retzius, Genera et Spec. Ins., p. 87, 1783, *Cimex.*

Amyot and Serville, Hémip., p. 384, 1843, *Conorhinus*.
Stål, Berl. Ent. Zeit., iii, p. 106, 1859, *Conorhinus*.
Stål, Hemip. Afr., iii, p. 142, 1865, *Conorhinus*.
Stål, Hemip. Fabr., i, p. 123, 1868, *Conorhinus*.
Stål, Enum. Hemip., ii, p. 111, 1872, *Conorhinus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 331, 1876, *Conorhinus*.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1330, *Conorhinus*.
Champion, Biol. Centr. Am., Heter., ii, p. 208, pl. 12, fig. 22, 1899, *Conorhinus*.
Kirkaldy, Hawai. Forester and Agricul., i, p. 185, 1904 (distribution).
gigas (Fabricius), Syst. Ent., p. 729, 1775, *Reduvius*.
Fabricius, Spec. Ins., ii, p. 371, 1781, *Reduvius*.
Fabricius, Mantissa Ins., ii, p. 309, 1787, *Reduvius*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2195, 1788, *Cimex*.
Fabricius, Ent. Syst., iv, p. 193, 1794, *Reduvius*.
Wolff, Icon. Cimic., iii, p. 119, fig. 113, 1802, *Reduvius*.
Fabricius, Syst. Rhyng., p. 267, 1803, *Reduvius*.
Laporte, Essai Classif. Syst. Hémip., p. 11, 1832.
Burmeister, Handb. d. Ent., ii, p. 246, 1835, *Conorhinus*.
Brullé, Hist. Nat. des Ins., ix, p. 324, 1835, *Conorhinus*.
Spinola, Essai sur les Hémip., p. 108, 1837 (1840), *Conorhinus*.
Blanchard, Hist. Nat. des Ins., Hémip., p. 108, 1840, *Conorhinus*. [*hinus*.
Herrich-Schaeffer, Wanz. Ins., viii, p. 72, figs. 841, 842, 1848, *Conor-*
erythrozonias (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, 1788, [*Cimex*.
stalii Signoret, Ann. Soc. Ent. Fr., Ser. 3, viii, p. 967, 1861, *Conorhinus*.
Localities: Kan., Texas, Calif. (Neotropical, Africa, Asia.)

Genus **Spiniger** Burm.
Logotype *ater* Lep. & Serv.

Burmeister, Handb. d. Ent., ii, p. 234, 1835.
Hahn, Wanz. Ins., iii, p. 22, 1835.
Amyot and Serville, Hémip., p. 334, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 64, 1848.
Stål, Stet. Ent. Zeit., xx, p. 395, 1859.
Stål, Hemip. Afr., iii, p. 122, 1865.
Stål, Berl. Ent. Zeit., xiii, p. 231, 1869.
Stål, Enum. Hemip., ii, pp. 109, 113, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 202, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 230, 1913.
¶*Zelurus* Hahn, Icon. Monog. Cimic., pl. 6, 1826 (for *ocellatus* Hahn = *See* Bergroth, Ent. Mitt., ii, p. 11, 1913. [*eburneus* L. & S.).
Acrocoris Hahn, Wanz. Ins., iii, pl. 80, 1835 (*Spiniger* on p. 22).
Stål, Enum. Hemip., ii, p. 114, 1872 (as subgenus).
Acidoparius Stål, Enum. Hemip., ii, p. 113, 1872 (as subgenus).
Micracidius Stål, Enum. Hemip., ii, p. 114, 1872 (as subgenus).
Opisthacidius Berg, Hemip. Argent., p. 172, 1879 (as subgenus).
Pantopsilus Berg, Hemip. Argent., p. 172, 1879 (as subgenus).

743. **Spiniger bicolor** Stål

Stål, Stet. Ent. Zeit., xx, p. 396, 1859.
Stål, Berl. Ent. Zeit., xiii, p. 234, 1869.
Stål, Enum. Hemip., ii, p. 117, 1872.

Banks, Cat. Neare. Hemip., p. 18, 1910.
Localities: Texas(?), Ariz.(?) (Banks). (Brazil.)

744. **Spiniger arizonica** Banks

Banks, Ent. News, xxi, p. 324, 1910.
Locality: Ariz.

Subfamily PIRATINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlii, 321, 1843, Groupe *Piratides.*
Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Peiratida.*
Dohrn, Cat. Hemip., p. 50, 1859, *Piratidae.*
Stål, Hemip. Afr., iii, pp. 44, 112, 1865, *Piratida.*
Stål, Of. Vet. Akad. Forh., xxiii, p. 250, 1866, *Piratida.*
Stål, Hemip. Fabr., i, p. 120, 1868, *Piratida.*
Stål, Of. Vet. Akad. Forh., xxix, No. 6, pp. 43, 46, 1872, *Piratina.*
Stål, Enum. Hemip., ii, pp. 66, 104, 1872; iv, pp. 4, 56, 1874, *Piratina.*
Uhler, Check List, p. 25, 1886, *Piratina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 120, 1896, *Piratidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 211, 1899, *Piratinae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 290, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 534, 1908, *Piratina.*
Banks, Cat. Neare. Hemip., p. 18, 1910, *Piratini.*
Oshanin, Kat. Palae. Hemip., p. 51, 1912, *Piratinae.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913, *Piratinae.*

Genus **Melanolestes** Stål
Logotype *picipes* H. S.

Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 259, 1866.
Stål, Enum. Hemip., ii, pp. 105, 107, 1872; iv, p. 60, 1874 (as subgen. of
Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887. [*Pirates*).
Champion, Biol. Centr. Am., Heter., ii, p. 213, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

745. **Melanolestes picipes** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 62, 1848, *Pirates.*
Stål, Of. Vet. Akad. Forh., xxiii, p. 259, 1866.
Stål, Enum. Hemip., ii, p. 107, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.
Walker, Cat. Heter., vii, p. 97, 1873, *Pirates.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 424, 1878.
Uhler, Stand. Nat. Hist., ii, p. 281, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.
Lintner, 4th Rept. N. Y. St. Ent., p. 109, 1888.
Uhler, Proc. Cal. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Bueno and Brimley, Ent. News, xvii, p. 437, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 154, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
pungens Leconte, Proc. Acad. Nat. Sci. Phila., vii, p. 404, 1856, *Reduvius.*
Localities: Quebec, Me., Mass., N. Y., N. J., Pa., Del., Va., N. C., Ga., Ala., Fla., La., Ill., Texas, N. Mex., Okl., Calif.

746. **Melanolestes abdominalis** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 63, fig. 832, 1848, *Pirates*.
Stål, Enum. Hemip., ii, p. 107, 1872 (as var. of *picipes*).
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 424, 1878.
Uhler, Stand. Nat. Hist., ii, p. 281, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 183, 1887.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 214, 1899.
Barber, Brookl. Inst., Sci. Bul., i, p. 284, 1906.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.
Localities: N. Y., N. J., Pa., Md., N. C., Okl., Texas, N. Mex., Calif.

Genus **Rasahus** Am. & Serv.
Logotype *sulcicollis* Serv.

Amyot and Serville, Hémip., p. 325, 1843.
Stål, Enum. Hemip., ii, p. 105, 1872.
Walker, Cat. Heter., vii, p. 47, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 214, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.
Macrosandalus Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 259, 1866 (type Walker, Cat. Heter., vii, pp. 85, 98, 1873. [*albomaculatus* Goeze).
Sphodrocoris Stål, Of. Vet. Akad. Forh., xxiii, pp. 251, 261, 1866 (type Walker, Cat. Heter., vii, pp. 85, 98, 1873. [*maculipennis* Lep. & Serv.).

747. **Rasahus biguttatus** (Say)

Say, Ins. La., p. 13, 1832; Compl. Writ., i, p. 307, *Petalocheirus*.
Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p. 358, *Petalocheirus*.
Stål, Stet. Ent. Zeit., xxiii, p. 457, 1862, *Pirates*.
Stål, Of. Vet. Akad. Forh., xxiii, p. 258, 1866, *Callisphodrus*.
Stål, Enum. Hemip., ii, p. 106, 1872.
Walker, Cat. Heter., vii, p. 98, 1873, *Pirates*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 330, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 216, pl. 13, fig. 7, 1899.
Barber, Brookl. Inst., Sci., Bul., i, p. 284, 1906.
Bueno and Brimley, Ent. News, xviii, p. 437, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
†*mutillarius* (Guerin), *in* Sagra, Hist. de Cuba, Ins., p. 410, 1857, *Reduvius*.
Uhler in Say's Compl. Writ., i, p. 307, 1859.
Localities: N. C., Fla., La., Texas. (West Indies.)
[Has been confused with next. Uncertain localities omitted.]

748. **Rasahus thoracicus** Stål

Stål, Enum. Hemip., ii, p. 106, 1872.
Bueno, Ent. News, xxiv, p. 22, 1913.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Essig, Inj. Ben. Ins. Calif., edn. 2, p. 210, 1915.
Localities: Ariz., Calif. (Mexico.)

749. **Rasahus hamatus** (Fabr.)

Fabricius, Spec. Ins., ii, p. 381, 1781, *Reduvius.*
Fabricius, Mantissa Ins., ii, p. 312, 1787, *Reduvius.*
Fabricius, Ent. Syst., iv, p. 203, 1794, *Reduvius.*
Fabricius, Syst. Rhyng., p. 278, 1803, *Reduvius.*
Stål, Hemip. Fabr., i, p. 121, 1868, *Calliphodrus.*
Stål, Enum. Hemip., ii, p. 106, 1872.
Bergroth, Revue d'Ent., xi, p. 262, 1892. (Synon. note.)
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 209.
Champion, Biol. Centr. Am., Heter., ii, p. 217, pl. 13, fig. 8, 1899.
Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906. [*Cimex.*
uncinatus (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2200, 1788,
——— Stoll, Abdl. u. Gesch. Wanz., p. 71, fig. 163, 1792 (*Reduvius in*
mutillarius (Fabricius), Syst. Rhyng., p. 280, 1803, *Reduvius.* [Register).
Herrich-Schaeffer, Wanz. Ins., viii, p. 61, fig. 829, 1848, *Pirates.*
Stål, Of. Vet. Akad. Forh., xxiii, p. 258, 1866, *Callisphodrus.*
Walker, Cat. Heter., vii, p. 98, 1873, *Pirates.*
†*maculipennis* (Walker), Cat. Heter., vii, p. 101, 1873, *Pirates.*
concisus (Walker), Cat. Heter., vii, p. 101, 1873, *Pirates.*
Bergroth, Revue d'Ent., xi, p. 263, 1892, *Pirates.*
indecisus (Walker), Cat. Heter., vii, p. 104, 1873, *Pirates.*
contiguus (Walker), Cat. Heter., vii, p. 130, 1873, *Pirates.*
sipolisii (Fallou), Le Naturaliste for 1887, p. 68.
varipes (Fallou), Revue d'Ent., x, p. 10, 1891, *Lestomerus.*
Localities: Texas. (Neotropical.)

Genus **Sirthenea** Spin.
Haplotype *carinata* Fabr.

Spinola, Essai sur les Hémip., p. 100, 1837 (1840).
Spinola, Tavola Sinot., p. 45, 1850.
Stål, Hemip. Afr., iii, pp. 112, 113, 1865.
Stål, Of. Vet. Akad. Forh., xxiii, pp. 250, 252, 1866.
Stål, Enum. Hemip., ii, pp. 104, 105, 1872.
Walker, Cat. Heter., vii, p. 84, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 220, 1899.
Distant, Fauna Br. Ind., Rhyn., ii, p. 303, 1904.
Horvath, Ann. Mus. Natl. Hung., vii, p. 356, 1909 (monograph).
Fracker, Proc. Ia. Acad. Sci., xix, p. 220, 1913.

750. **Sirthenea carinata** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 545, 1798, *Reduvius.*
Coquebert, Illust. Icon. Ins., p. 42, pl. 10, fig. 15, 1799, *Reduvius.*
Fabricius, Syst. Rhyng., p. 278, 1803, *Reduvius.*
Le Peletier and Serville, Encyc Méth., x, p. 278, 1825, *Reduvius.*
Serville, Ann. Sci. Nat., xxiii, p. 221, 1831, *Pirates.*
Spinola, Essai sur les Hémip., p. 100, 1837 (1840).
Amyot and Serville, Hémip., p. 326, 1843, *Rasahus.*
Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862, *Rasahus.*

Stål, Of. Vet. Akad. Forh., xxiii, p. 252, 1866.
Stål, Hemip. Fabr., i, p. 120, 1868.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 156, 1868, *Pirates*.
Stål, Enum. Hemip., ii, p. 105, 1872.
Walker, Cat. Hemip., vii, p. 97, 1873, *Pirates*.
Uhler, Proc. U. S. Geol. Geog. Surv., i, p. 329, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 220, 1899 (as syn. of *stria* Fabr.).
Bueno and Brimley, Ent. News, xviii, p. 437, 1907.
Horvath, Ann. Mus. Natl. Hung., vii, p. 361, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.
†*stria* Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 233, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: N. J., N. C., S. C., Ga., Fla., La., Texas, Calif. (Mexico.)

Subfamily **ECTRICHODIINAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xliv, 342, 1843, Groupe *Ectichodides*.
Spinola, Tavola Sinot., pp. 44, 45, 1850, *Ectrichodioideae*.
Stål, Of. Vet. Akad. Forh., xvi, p. 175, 1859, *Ectrichodides*.
Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Ectrichodiida*.
Dohrn, Cat. Hemip., p. 49, 1859, *Ectrichodidae*.
Stål, Hemip. Afr., iii, pp. 44, 101, 1865, *Ectrichodiida*.
Stål, Enum. Hemip., ii, pp. 66, 101, 1872, *Ectrichodiina*.
Walker, Cat. Heter., vii, pp. 45, 47, 52, 79, 1873, *Ectrichodida*.
Stål, Enum. Hemip., iv, pp. 4, 45, 1874, *Ectrichodiina*.
Uhler, Check List., p. 25, 1886.
Champion, Biol. Centr. Am., Heter., ii, p. 221, 1899, *Ectrichodiinae*.
Distant, Fauna Br. Ind., Rhyn., ii, p. 304, 1904, *Ectrichodiinae*.
Oshanin, Verz. Palae. Hemip., i, p. 540, 1908, *Ectrichodina*.
Banks, Cat. Neare. Hemip., p. 17, 1910, *Ectrichodini*.
Oshanin, Kat. Palae. Hemip., p. 52, 1912, *Ectrichodiinae*.

Genus **Rhiginia** Stål

Haplotype *lateralis* Lep. & Serv.

Stål, Of. Vet. Akad. Forh., xvi, pp. 176, 181, 1859.
Stål, Hemip. Afr., iii, p. 102, 1865.
Walker, Cat. Heter., viii, p. 61, 1873 (as division 3 of *Ectrichodia*).
Kirkaldy, Entomol., xxxiii, p. 239, 1900.
Bergroth, Wien. Ent. Zeit., xxv, p. 5, 1906.
†*Ectrichodia* Stål, Enum. Hemip., ii, pp. 101, 102, 1872.
Walker, Cat. Heter., viii, p. 61, 1873.
Stål, Enum. Hemip., iv, p. 48, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 224, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 234, 1913.

751. **Rhiginia cruciata** (Say)

Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 802; Compl. Writ., i, p. [358, *Petalocheirus*.
Stål, Enum. Hemip., ii, p. 103, 1872, *Ectrichodia*.
Walker, Cat. Heter., viii, p. 56, 1873, *Ectrichodia*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Ectrichodia*.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878, *Eetrichodia.*
Champion, Biol. Centr. Am., Heter., ii, p. 226, 1899, *Eetrichodia.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, x, p. 294, 1902, *Eetrichodia.*
Bueno and Brimley, Ent. News, xviii, p. 437, 1907, *Eetrichodia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909, *Eetrichodia.*
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910, *Eetrichodia.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Eetrichodia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Eetrichodia.*
bicolor (Herrich-Schaeffer), Wanz. Ins., viii, p. 53, fig. 822, 1848,
media (Walker), Cat. Heter., viii, p. 62, 1873, *Eetrichodia.* [*Eetrycholes.*
Localities: N. J., Pa., Md., Ga., Fla., Ind., La., Texas, N. Mex.

752. **Rhiginia cinctiventris** Stål

Stål, Enum. Hemip., ii, p. 103, 1872, *Eetrichodia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Eetrichodia.*
Champion, Biol. Centr. Am., Heter., ii, p. 225, pl. 13, fig. 20, 1899, *Eetrichodia.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Eetrichodia.*
Localities: Texas, N. Mex. (Mexico.)

Genus **Pothea** Am. & Serv.
Logotype *ventralis* Lep. & Serv.

Amyot and Serville, Hémip., p. 344, 1843.
Spinola, Tavola Sinot., p. 45, 1850.
Stål, Of. Vet. Akad. Forh., xvi, pp. 176, 184, 1859.
Stål, Hemip. Afr., iii, p. 102, 1865.
Stål, Enum. Hemip., ii, pp. 101, 103, 1872; iv, p. 48, 1874.
Champion, Biol. Centr. Am., Heter., ii, p. 221, 1899.

753. **Pothea(?) aeneo-nitens** Stål

Stål, Ann. Soc. Ent. Fr., Ser. 4, iv, p. 59, 1864.
Stål, Enum. Hemip., ii, p. 101, 1872.
Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913.
Localities: "Am. Borealis" (probably in error).

Subfamily HAMMACERINAE (Stål)

Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Hammacerida.*
Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862, *Hammatoceridae.*
Stål, Enum. Hemip., ii, pp. 66, 100, 1872; iv, p. 4, 1874, *Hammatocerina.*
Champion, Biol. Centr. Am., Heter., ii, p. 226, 1899, *Hammatocerinae.*
Banks, Cat. Neare. Hemip., p. 17, 1910, *Hammatocerini.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 221, 1913, *Hammatocerinae.*

Genus **Hammacerus** Lap.
Orthotype *conspicillaris* Drury

Laporte, Essai Classif. Syst. Hémip., p. 79, 1832.
Spinola, Essai sur les Hémip., p. 81, 1837 (1840).
Spinola, Tavola Sinot., p. 45, 1850.
[*Hammatocerus* Burmeister, Handb. d. Ent., ii, p. 235, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 105, 1840.
Amyot and Serville, Hémip., p. 345, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 49, 1848.
Stål, Hemip. Afr., iii, p. 102, 1865.

Stål, Enum. Hemip., ii, p. 100, 1872.
Walker, Cat. Heter., vii, pp. 47, 80, 1873.
Fracker, Proc. Ia. Acad. Sci., xix, p. 221, 1913.

754. **Hammacerus purcis** (Drury)

Drury, Illust. Exot. Ent., iii, p. 63, pl. 45, fig. 4, 1782, *Cimex.* [358, *Nabis.*
Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ., i, p.
Laporte, Essai Classif. Syst. Hémip., p. 79, 1832 (spelled *furcis*).
Blanchard, Hist. Nat. des Ins. Hémip., p. 105, 1840 (*furcis*).
Amyot and Serville, Hémip., p. 346, 1843 (*furcis*).
Emmons, Nat. Hist. N. Y., Agr. v, p. 168, pl. 30, fig. 6, 1854.
Stål, Enum. Hemip., ii, p. 100, 1872.
Walker, Cat. Heter., viii, p. 65, 1873, *Hammatocerus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876, *Hammatocerus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 426, 1878 (*Hammatocerus furcis*).
Bueno and Brimley, Ent. News, xvii, p. 437, 1907, *Hammatocerus.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 234, 1913, *Hammatocerus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914, *Hammatocerus.*
nychthemerus Burmeister, Handb. d'Ent., ii, p. 236, 1835, *Hammatocerus.*
Herrich-Schaeffer, Wanz. Ins., vi, p. 104, fig. 675, 1842, *Hammatocerus.*
Localities: Va., N. C., S. C., Ga., Fla., Ala., Okl., Texas.

755. **Hammacerus luctuosus** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 237, 1854, *Hammatocerus.*
Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862, *Hammatocerus.*
Stål, Enum. Hemip., ii, p. 100, 1872, *Hammatocerus.*
Champion, Biol. Centr. Am., Heter., ii, p. 227, pl. 13, fig. 24, 1899, *Hammato-*
Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906, *Hammatocerus.* [*cerus.*
Fracker, Proc. Ia. Acad. Sci., xix, p, 234, 1913, *Hammatocerus.*
Localities: Texas. (Neotropical.)

Genus **Homalocoris** Perty
Type *varius* Perty?

Perty, Delec. Anim. Artic., p. 216, 1834.
Stål, Hemip. Afr., iii, p. 102, 1865.
Stål, Enum. Hemip., ii, p. 100, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 227, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 221, 234, 1913.
‖*Platycoris* Perty, Delec. Anim. Artic., p. 175, 1834 (not of Guerin).

756. **Homalocoris minutus** (Mayr)

Mayr, Ver. Zool.-Bot. Ges. Wien, xv, p. 439, 1866, *Hammatocerus.*
Stål, Enum. Hemip., ii, p. 101, 1872.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 170, 1906; pt. 2, p. 160, 1907.
Locality: Ariz.

757. **Homalocoris maculicollis** Stål

Stål, Enum. Hemip., ii, p. 101, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 228, pl. 13, fig. 22, 1899.
Banks, Cat. Neare. Hemip., p. 17, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.
Localities: Ariz.(?). (Neotropical.)

758. **Homalocoris guttatus** (Walk.)

Walker, Cat. Heter., vii, p. 181, 1873, *Reduvius.*
Champion, Biol. Centr. Am., Heter., ii, p. 229, pl. 13, fig. 26, 1899.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910.
Localities: Ariz. (Mexico.)

Subfamily APIOMERINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xliv, 350, 1843, Groupe *Apiomerides.*
Stål, Berl. Ent. Zeit., iii, p. 328, 1859, *Apiomerida.*
Dohrn, Cat. Hemip., p. 50, 1859, *Apiomeridae.*
Stål, Hemip. Afr., iii, p. 44, 1865, *Apiomerida.*
Stål, Of. Vet. Akad. Forh., xxiii, p. 247, 1866, *Apiomerida.*
Stål, Enum. Hemip., ii, pp. 66, 92, 1872, *Apiomerina.*
Walker, Cat. Heter., vii, pp. 45, 48, 70, 1873; viii, p. 66, 1873, *Apiomeridae.*
Stål, Enum. Hemip., iv, pp. 3, 44, 1874, *Apiomerina.*
Uhler, Check List, p. 24, 1886, *Apiomerina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 144, 1896, *Apiomeridae.*
Champion, Biol. Centr. Am., Heter., ii, p. 229, 1899.
Distant, Fauna Br. Ind., Rhyn., ii, p. 326, 1904.
Banks, Cat. Nearc. Hemip., p. 16, 1910, *Apiomerini.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 222, 1913.
Ectinoderida Stål, Berl. Ent. Zeit., iii, p. 328, 1859.
Stål, Hemip. Afr., iii, pp. 44, 99, 1865.

Genus **Apiomerus** Lap.
Orthotype *hirtipes* Fabr.

Hahn, Wanz. Ins., i, p. 29, 1831 (invalid here).
Laporte, Essai Classif. Syst. Hémip., p. 82, 1832.
Burmeister, Handb. d. Ent., ii, p. 230, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 318, 1835.
Spinola, Essai sur les Hémip., p. 108, 1837 (1840).
Blanchard, Hist. Nat. des. Ins., Hémip., p. 102, 1840.
Amyot and Serville, Hémip., p. 351, 1843.
Spinola, Tavola Sinot., p. 46, 1850.
Stål, Of. Vet. Akad. Forh., xxiii, pp. 247, 249, 1866.
Stål, Hemip. Fabr., i, p. 116, 1868.
Stål, Enum. Hemip., ii, pp. 94, 95, 1872.
Walker, Cat. Heter., vii, pp. 48, 72, 1873; viii, p. 66, 1873.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330 (*Apiomerina* by error).
Champion, Biol. Centr. Am., Heter., ii, p. 230, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.

Subgenus **Apiomerus** Lap.

Stål, Enum. Hemip., ii, p. 96, 1872.

759. **Apiomerus subpiceus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 454, 1862.
Stål, Enum. Hemip., ii, p. 97, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 237, pl. 14, fig. 12, 1889.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906; pt. 2, p. 160, 1907.
Banks, Cat. Nearc. Hemip., p. 16, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 235, 1913.
Localities: Ariz. (Neotropical.)

760. **Apiomerus moestus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 455, 1862.
Stål, Enum. Hemip., ii, p. 97, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 239, pl. 14, figs. 19, 20, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Localities: Ariz. (Mexico.)

761. **Apiomerus longispinis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 239, pl. 14, fig. 18, 1899.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907.
Barber, Jl. N. Y. Ent. Soc., xviii, p. 38, 1910, *longispinus*.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Localities: Ariz. (Mexico.)

762. **Apiomerus immundus** Bergr.

Bergroth, Bul. Soc. Ent. Fr. for 1898, p. 307.
Champion, Biol. Centr. Am., Heter., ii, p. 238, pl. 14, fig. 17, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Localities: Calif. (Mexico.)

763. **Apiomerus repletus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 329, 1876.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Locality: Calif.

Subgenus **Herega** Am. & Serv.

Haplotype *rubrolimbata* Am. & Serv. = *crassipes* Fabr.

Amyot and Serville, Hémip., p. 354, 1843.
Stål, Enum. Hemip., ii, p. 98, 1872.

764. **Apiomerus crassipes** (Fabr.)

Fabricius, Syst. Rhyng., p. 273, 1803, *Reduvius*.
Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 4, *Reduvius*.
Stål, Hemip. Fabr., i, p. 117, 1868.
Stål, Enum. Hemip., ii, p. 98, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876.
Uhler, Stand. Nat. Hist., ii, p. 281, 1884.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 242, 1899.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 135, 1911 (egg).
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
linitaris (Say), Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 800; Compl. [Writ., i, p. 355, *Reduvius*.
rubrolimbata Amyot and Serville, Hémip., p. 354, 1843, *Herega*.
Localities: N. J., N. C., Fla., Ind., Neb., Kan., Colo., Utah, La., Texas, Ariz., Calif., Vanc. Isd.

765. **Apiomerus spissipes** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 328, 1825; Compl. Writ., ii, p. 250, [*Reduvius*.

Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 3, *Reduvius.*
Stål, Enum. Hemip., ii, p. 98, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Herega.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876; iii, p. 429, 1877.
Champion, Biol. Centr. Am., Heter., ii, p. 241, pl. 14, fig. 25, 1899.
Barber, Brookl. Inst. Sci. Bul., i, p. 285, 1906.
Morrill, U. S. Dept. Agr., Bur. Ent., Bul. 63, pt. 4, p. 49, 1907.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Localities: Colo., Ariz., Texas. (Mexico.)

766. **Apiomerus flaviventris** H. S.
Herrich-Schaeffer, Wanz. Ins., viii, p. 77, fig. 847, 1853.
Stål, Enum. Hemip., ii, p. 98, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876; iii, p. 429, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: Fla., Colo., N. Mex., Texas, Ariz., Calif. (Mexico.)

767. **Apiomerus pictipes** H. S.
Herrich-Schaeffer, Wanz. Ins., viii, p. 75, fig. 843, 1853.
Stål, Enum. Hemip., ii, p. 98, 1872.
Gillette and Baker, Hemip. Colo., p. 60, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 243, pl. 14, figs. 28, 29, 30, 31, 1899.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
Fracker, Proc. Ia. Acad. Sci., xix, p. 236, 1913.
Localities: Colo., N. Mex. (Neotropical.)

Subfamily HARPACTORINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlv, 355, 1843, Groupe *Harpactorides.*
Spinola, Tavola Sinot., p. 45, 1850, *Harpactoroideae.*
Dohrn, Cat. Hemip., p. 44, 1859, *Harpactorina.*
Walker, Cat. Heter., viii, p. 75, 1873, *Harpactoridae.*
Puton, Cat. Hémip. Palae., p. 39, 1886, Div. *Harpactoraria.*
Reuter, Revue d'Ent., vi, p. 149, 1887, *Harpactorina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 150, 1896, *Harpactoridae.*
Champion, Biol. Centr. Am., Heter., ii, p. 244, 1899, *Harpactorinae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 329, 1904, *Harpactorinae.*
Oshanin, Verz. Palae. Hemip., i, p. 544, 1908, *Harpactorina.*
Oshanin, Kat. Palae. Hemip., p. 52, 1912, *Harpactorinae.*
†*Reduvides* Stål, Of. Vet. Akad. Forh., xvi, p. 195, 1859.
Stål, Hemip. Afr., iii, pp. 43, 46, 1865, *Reduviida.* [tables).
Stål, Of. Vet. Akad. Forh., xxiii, pp. 263, 283, 292, 1866 (synoptic
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 60, 1872, *Reduviina.*
Stål, Enum. Hemip., ii, pp. 66, 67, 1872, *Reduviina.*
Walker, Cat. Heter., vii, pp. 51, 52, 53, 1873.
Stål, Enum. Hemip., iv, pp. 3, 6, 1874, *Reduviina.*
Uhler, Check List, p. 23, 1886, *Reduviina.*

TRIBE *ZELINI* (Am. & Serv.)

Amyot and Serville, Hémip., pp. xlvi, 367, 1843, *Zelides.*
Stål, Of. Vet. Akad. Forh., xvi, pp. 196, 366, 1859 (without name, gives key).

Banks, Cat. Nearc. Hemip., p. 15, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913, *Zelinae*.
†*Reduviida* Stål, Berl. Ent. Zeit., iii, p. 328, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862. [key to genera).
Stål, Of. Vet. Akad. Forh., xxiii, p. 292, 1866 (without name, with *Harpaetoraria* Distant, Fauna Br. Ind., Rhyn., ii, p. 331, 1904.

Genus **Zelus** Fabr.
Orthotype *longipes* Linn.

Fabricius, Syst. Rhyng., p. 281, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 260, 1804 (for *longipes* Linn.).
Latreille, Genera Crust. Ins., iii, p. 129, 1807.
Latreille, Consid. Génl., p. 433, 1810 (names *longipes* type).
Leach, Brewster's Edinbg. Encyc., ix, p. , 1815.
Le Peletier and Serville, Encyc. Méth., p. 815, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 9, 1832 (names *festinans* Fabr. pseudo-
Brullé, Hist. Nat. des Ins., ix, p. 316, 1835. [type).
Burmeister, Handb. d. Ent., ii, p. 225, 1835 (incorrect as to species).
Blanchard, Hist. Nat. des Ins., Hémip., p. 100, 1840.
Stål, Stet. Ent. Zeit., xxii, p. 148, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862.
Stål, Hemip. Fabr., i, p. 107, 1868.
Stål, Enum. Hemip., ii, p. 88, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 251, 1898.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 238, 1913.
†*Euagoras* Herrich-Schaeffer, Wanz. Ins., viii, p. 43, 1853.
[Stål, 1866, restricts *Euagorus* Burm. to *stolli* and allies.]
‡*Evagoras* Amyot and Serville, Hémip., p. 368, 1843.
[See Hemip. Afr., iii, p. 51, 1865.]
Provancher, Pet. Faune Ent. Can., iii, p. 182, 1887.
†*Arilus* Spinola, Tavola Sinot., p. 48, 1850 (part).

Subgenus **Zelus** Fabr.

Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862.
Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as genus).
Stål, Enum. Hemip., ii, p. 88, 1872.

768. **Zelus bilobus** Say

Say, Ins. La., p. 12, 1832; Compl. Writ., i, p. 306.
Stål, Stet. Ent. Zeit., xxiii, p. 449, 1862 (as var. of *longipes* Linn.).
Stål, Enum. Hemip., ii, p. 88, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 176, 1909.
Bueno and Englehardt, Can. Ent., xlii, p. 150, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 505, 1914.
Localities: N. C., S. C., Ga., Fla., La., Texas.

769. **Zelus pictipes** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 255, pl. 15, fig. 14, 1899.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Localities: Ariz. (Mexico, Guatamala.)

770. **Zelus cervicalis** Stål

Stål, Enum. Hemip., ii, p. 90, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 255, 1899.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
marginata (Provancher), Pet. Faune Ent. Can., iii, p. 182, 1887, *Evagoras.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.
Localities: Ont. (accidental?), Va., N. C., S. C., Fla., La., Texas, Ariz., Calif. (Mexico.)

Subgenus **Diplocodus** Kirk.

Logotype *armillatus* Lep. & Serv.

Kirkaldy, Entomologist, xxxiii, p. 242, 1900 (n.n. for *Diplodus* Am. & Serv.).
‖*Diplodus* Amyot and Serville, Hémip., p. 370, 1843 (as distinct genus).
Stål, Stet. Ent. Zeit., xxiii, p. 450, 1862.
Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as distinct genus).
Stål, Enum. Hemip., ii, p. 90, 1872.
Walker, Cat. Heter., vii, p. 66, 1873; viii, p. 123, 1873.
Fracker, Proc. Ia. Acad. Sci., xix, p. 239, 1913.
§*Diploda* Walker, Cat. Heter., vii, p. 49, 1873 (error for *Diplodus*).
†*Darbanus* Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887.
Fracker, Proc. Ia. Acad. Sci., xix, p. 241, 1913.

771. **Zelus exsanguis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 452, 1862, *Diplodus.*
Stål, Enum. Hemip., ii, p. 91, 1872, *Diplodus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Diplodus.*
Champion, Biol. Centr. Am., Heter., ii, p. 259, pl. 15, fig. 23, 1899, *Zelus*
Barber, Brookl. Inst., Sci. Bul., i, p. 285, 1906. [(excl. synon.).
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Parshley, Psyche, xxi, p. 144, 1914.
Reduvius sp., Emmons, Nat. Hist. N. Y., Agr., v, p. 168, pl. 7, fig. 3, 1854.
luridus Stål, Stet. Ent. Zeit., xxiii, p. 452, 1862, *Diplodus.*
Stål, Enum. Hemip., ii, p. 91, 1872, *Diplodus.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Diplodus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876; iii, p. 429, 1877,
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 427, 1878, *Diplodus.* [*Diplodus.*
Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887, *Diplodus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Diplodus.*
Gillette and Baker, Hemip. Colo., p. 60, 1895, *Diplodus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904, *Zelus.*
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910, *Zelus.*
Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910, *Zelus.*
Van Duzee, Can. Ent., xliv, p. 324, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
georgiae (Provancher), Nat. Can., iv, p. 106, 1872, *Darbanus.*
Provancher, Pet. Faune Ent. Can., iii, p. 181, 1887, *Darbanus.*
palliatus (Provancher), Pet. Faune Ent. Can., iii, p. 182, 1887, *Darbanus.*
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., S. C., Fla., Colo., Texas, Ariz., Calif.

772. **Zelus laevicollis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 260, pl. 15, fig. 24, 1899, *Zelus*.
Banks, Cat. Nearc. Heter., p. 16, 1910, *Zelus*.
Localities: Texas. (Mexico.)

773. **Zelus renardii** Kolen.

Kolenati, Melet. Ent., vi, p. 42, pl. 3, fig. 2, 1857, *Zelus*.
Stål, Enum. Hemip., ii, p. 91, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Diplodus*.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Diplodus*.
?peregrinus Kirkaldy, Fauna Hawaii, iii, p. 149, 1902, *Zelus*.
Kirkaldy, Can. Ent., xxxxix, p. 247, 1907, *Zelus*. [*Diplocodus*.
†*exsanguis* Van Duzee, Trans. San. Diego Soc. Nat. Hist., ii, p. 13, 1914,
Localities: Calif. (Mexico, Hawai. Isds.?)

Subgenus **Pindus** Stål
Haplotype *tetracanthus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 454, 1862.
Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (as distinct genus).
Stål, Enum. Hemip., ii, p. 92, 1872.
Walker, Cat. Heter., vii, p. 66, 1873.
Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.

774. **Zelus socius** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 284, 1894.
Gillette and Baker, Hemip. Colo., p. 60, 1895, *Diplodus*.
Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906, *Zelus*.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913, *Zelus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Localities: Fla., Ill., Kan. Dak., Colo., Utah, N. Mex., Ariz., Calif., Idaho.

775. **Zelus audax** Banks

Banks, Ent. News, xxi, p. 325, 1910, *Zelus*.
Fracker, Proc. Ia. Acad. Sci., xix, p. 240, 1913.
Localities: Ont., Me., N. Y., Va.

776. **Zelus occiduus** Bueno

Bueno, Ent. News, xxiv, p. 22, 1913.
Localities: Calif.

Genus **Rhynocoris** Hahn
Logotype *eruentus* Fabr. = *iracundus* Poda

Hahn, Wanz. Ins., ii, p. 20, 1834.
Kolenati, Melet. Ent., vi, p. 42, 1857, *Rhinocoris*.
Stål, Of. Vet. Akad. Forh., xxiii, p. 284, 1866, *Rhinocoris*.

Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872 (as subgenus).
Stål, Enum. Hemip., iv, p. 40, 1874 (as subgenus).
Kirkaldy, Entomologist, xxxiii, p. 242, 1900.
Reuter, Of. Finska, Vet. Soc. Forh., liv, Afd. A, No. 7, p. 20, 1912.
Oshanin, Kat. Palae. Hemip., p. 53, 1912, *Rhinocoris*.

†*Harpactor* Burmeister, Handb. d. Ent., ii, p. 229, 1835 (part).
Spinola, Essai sur les Hémip., p. 117, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hemip., p. 102, 1840 (as subgen.).
Amyot and Serville, Hémip., p. 364, 1843.
Dohrn, Cat. Hemip., p. 45, 1859.
Flor, Rhyn. Livl., i, p. 681, 1860.
Fieber, Europ. Hemip., pp. 42, 152, 1861.
Walker, Cat. Heter., viii, p. 94, 1873.
Puton, Synop. Hemip. Fr., i, p. 176, 1879.
Puton, Cat. Hémip. Palae., edn. 3, p. 39, 1886. [pseudotype).
Reuter, Rev. Synon., p. 350, No. 318, 1888 (names *annulatus* Linn.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 157, 1896.
Bergroth, Ent. News., viii, p. 96, 1897.
Distant, Fauna Br. Ind., Rhyn., ii, p. 332, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 546, 1908.
Banks, Cat. Nearc. Hemip., p. 17, 1912.

†*Reduvius* Stål, Hemip. Afr., iii, pp. 54, 75, 1865.
Stål, Of. Vet. Akad. Forh., xxiii, pp. 283, 284, 1866.
Stål, Hemip. Fabr., i, p. 110, 1868.
Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 45, 1872.
Stål, Enum. Hemip., iv, p. 37, 1874.

Oncauchenius Stål, Of. Vet. Akad. Forh., xxix, No. 6, p. 46, 1872 (as sub-
Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus). [genus).
Hypertolmus Stål, Enum. Hemip., iv, p. 37, 1874 (subgen., type *nitidulus*
Diphymus Stål, Enum. Hemip., iv, p. 37, 1874 (as subgenus).
Chirillus Stål, Enum. Hemip., iv, p. 38, 1874 (as subgenus).
Lamphrius Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus).
Harpiscus Stål, Enum. Hemip., iv, p. 39, 1874 (as subgenus).
Taeniorphus Stål, Enum. Hemip., iv, p. 40, 1874 (as subgenus).
Charontus Stål, Enum. Hemip., iv, p. 41, 1874 (as subgenus).
Coranideus Reuter, Acta Soc. Sci. Fenn., xii, p. , 1881 (reprint, p. 28).

[Subgenera *Zostus* Stål, *Dinocleptes* Stål, *Agrioclopius* Stål, and *Aprepolestes* Stål, Enum. Hemip., iv, pp. 37–41, are not found in America.]

777. **Rhynocoris ventralis** (Say)

Say, Heter. N. Harm., p. 31, 1832; Fitch reprint, p. 800; Compl. Writ., i, p.
Stål, Enum. Hemip., ii, p. 128, 1872. (Genus?) [355, *Reduvius*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Apiomerus*.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 508, 1877, *Apiomerus*.
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Apiomerus*.
Gillette and Baker, Hemip. Colo., p. 60, 1895, *Apiomerus*.
Parshley, Psyche, xxi, p. 144, 1914, *Apiomerus*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Parshley, Ent. News, xxxvii, p. 105, 1916, *Apiomerus*.

Localities: Me., Mass., Mo., Neb., N. D., Sask., Colo., Utah, Calif.

a. var. **americanus** Bergr.
Bergroth, Ent. News, viii, p. 96, 1897, *Harpactor*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Locality: Calif.

b. var. **annulipes** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Locality: Calif.

c. var. **femoralis** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Locality: Calif.

778. **Rhynocoris leucospilus** (Stål)

Stål, Of. Vet. Akad. Forh., xvi, p. 203, 1859, *Reduvius*.
Stål, Enum. Hemip., iv, p. 43, 1874. (Genus?)
Reuter, Acta Soc. Sci. Fenn., xii, p. , 1881 (separata, p. 27), *Reduvius*.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 160, 1876, *Harpactor*.
Bergroth, Ent. News, viii, p. 96, 1897.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Harpactor*.
dybowskyi (Jakowlef), Bul. Soc. Imp. Nat. Mosc., iii, p. 123, 1876,
fieberi Nowicki, Nowe Owady, p. 1 (unknown to Oshanin). [*Harpactor*.
Localities: Sitka. (Palaearctic.)

Genus **Pselliopus** Bergr.
Haplotype *ornaticeps* Stål

Bergroth, Revue d'Ent., xxiv, p. 112, 1905 (n.n. for *Milyas* Stål).
Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 237, 1913.
‖*Milyas* Stål, Rio Jan. Hemip., ii, p. 61, 1862.
Stål, Of. Vet. Akad. Forh., xxiii, p. 295, 1866.
Stål, Enum. Hemip., ii, p. 86, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 244, 1899.

779. **Pselliopus cinctus** (Fabr.)

Fabricius, Genera Ins., p. 302, 1776, *Reduvius*.
Fabricius, Spec. Ins., ii, p. 379, 1778, *Reduvius*.
Fabricius, Mantissa Ins., ii, p. 310, 1787, *Reduvius*.
Fabricius, Ent. Syst., iv, p. 199, 1794, *Reduvius*.
Fabricius, Syst. Rhyng., p. 272, 1803, *Reduvius*.
Herrich-Schaeffer, Wanz. Ins., viii, p. 83, fig. 853, 1848, *Harpactor*.
Stål, Stet. Ent. Zeit., xxiii, p. 448, 1862, *Milyas*.
Stål, Hemip. Fabr., i, p. 106, 1868, *Milyas*.
Stål, Enum. Hemip., ii, p. 87, 1872, *Milyas*.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 420, 1872, *Milyas*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Milyas*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 427, 1878, *Milyas*.
Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Milyas*.
Gillette and Baker, Hemip. Colo., p. 59, 1895, *Milyas*.
Bueno and Brimley, Ent. News, xviii, p. 437, 1907, *Milyas*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914. [1788, *Cimex. praecinctus* (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2198,
Localities: Mass., Conn., N. Y., N. J., Pa., Va., N. C., Ga., Fla., Ohio, Ill., Colo., Wyom., Okl., Texas.

780. **Pselliopus barberi** Davis

Davis, Psyche, xix, p. 21, 1912.
Localities: Md., Va., Ohio, Mo., Kan., Texas.

781. **Pselliopus zebra** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 448, 1862, *Milyas.*
Stål, Enum. Hemip., ii, p. 87, 1872, *Milyas.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 328, 1876, *Milyas.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Milyas.*
Champion, Biol. Centr. Am., Heter., ii, p. 247, pl. 15, figs. 5, 6, 1899, *Milyas.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.
Localities: Ariz., Calif. (Mexico.)

782. **Pselliopus spinicollis** (Champ.)

Champion, Biol. Centr. Am., Heter., ii, p. 245, pl. 15, fig. 2, 1899, *Milyas.*
Barber, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910, *Milyas.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.
Localities: Idaho, Ariz., Calif. (Mexico.)

783. **Pselliopus inermis** (Champ.)

Champion, Biol. Centr. Am., Heter., ii, p. 246, pl. 15, fig. 4, 1899, *Milyas.*
Barber, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910, *Milyas.*
Fracker, Proc. Ia. Acad. Sci., xix, p. 237, 1913.
Localities: Ariz. (Mexico.)

Genus **Castolus** Stål
Haplotype *plagiaticollis* Stål

Stål, Of. Vet. Akad. Forh., xv, p. 447, 1858; xxiii, p. 294, 1866.
Stål, Enum. Hemip., ii, p. 80, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 278, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 243, 1913.

784. **Castolus subinermis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 447, 1862, *Repipta.*
Stål, Enum. Hemip., ii, p. 80, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 280, pl. 17, fig. 6, 1899.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Localities: Ariz. (Mexico.)

785. **Castolus ferox** (Banks)

Banks, Ent. News, xxi, p. 325, 1910, *Zelus.*
Bergroth, Ent. News, xxiv, p. 265, 1913.
Fracker, Proc. Ia. Acad. Sci., xix, p. 243, 1913.
Locality: Ariz.

Genus **Repipta** Stål
Logotype *lineatus* Am. & Serv. = *taurus* Fabr.

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 369, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862.
Stål, Of. Vet. Akad. Forh., xxiii, p. 293, 1866.
Stål, Enum. Hemip., ii, pp. 69, 80, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 267, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 241, 1913. [*cornis* Stål.)
Spinda Stål, Of. Vet. Akad. Forh., xvi, p. 371, 1859. (Haplotype *spissi-*

786. **Repipta taurus** (Fabr.)

Fabricius, Syst. Rhyng., p. 291, 1803, *Zelus*.
Stål, Stet. Ent. Zeit., xxiii, p. 446, 1862.
Stål, Enum. Hemip., ii, p. 80, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Gillette and Baker, Hemip. Colo., p. 59, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 269, pl. 16, fig. 13, 1899.
Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
lineatus (Amyot and Serville), Hémip., p. 373, 1843, *Zelus*.
Stål, Of. Vet. Akad. Forh., xvi, p. 369, 1859.
Localities: Pa., "Carolina," Fla., Colo., Texas. (Mexico.)

787. **Repipta mucosa** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 271, pl. 16, fig. 17, 1899.
Localities: Texas. (Central America.)

788. **Repipta flavicans** (A. & S.)

Amyot and Serville, Hémip., p. 374, 1843, *Zelus*.
Stål, Of. Vet. Akad. Forh., xvi, p. 369, 1859.
Stål, Stet. Ent. Zeit., xxiii, p. 447, 1862, *Zelus*.
Stål, Enum. Hemip., ii, p. 80, 1872.
Walker, Cat. Heter., viii, p. 132, 1873, *Zelus*.
Berg, Hemip. Argent., p. 147, 1879.
Champion, Biol. Centr. Am., Heter., ii, p. 269, pl. 16, fig. 14, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.
lateralis (Herrich-Schaeffer), Wanz. Ins., ix, p. 120, 1853, *Zelus*.
ochraceus (Herrich-Schaeffer), Wanz. Ins., ix, p. 121, 1853, *Zelus*.
varipes (Herrich-Schaeffer), Wanz. Ins., ix, p. 121, 1853, *Zelus*.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 139, 1868.
Stål, Enum. Hemip., ii, p. 80, 1872.
Localities: Texas (not Ill. as per Fracker). (Neotropical.)

Genus **Fitchia** Stål
Haplotype *aptera* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 367, 370, 1859; xxiii, p. 293, 1866.
Stål, Enum. Hemip., ii, pp. 69, 79, 1872.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 242, 1913.

789. **Fitchia aptera** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 371, 1859.
Heidemann, Proc. Ent. Soc. Wash., iv, p. 123, 1897.
Fracker, Proc. Ia. Acad. Sci., xix, p. 243, 1913.
Parshley, Psyche, xxi, p. 144, 1914.
nigro-vittata Stål, Of. Vet. Akad. Forh., xxiii, p. 296, 1866 (n.n. for *aptera*).
Stål, Enum. Hemip., ii, p. 79, 1872.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893.
Gillette and Baker, Hemip. Colo., p. 59, 1895.

Bueno, Jl. N. Y. Ent. Soc., xviii, p. 32, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 155, 1910.
Localities: Me., Mass., N. Y., N. J., Pa., S. C., Ill., Kan., Colo., Utah, Okl., Texas.

790. **Fitchia spinosula** Stål

Stål, Enum. Hemip., ii, p. 79, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Gillette and Baker, Hemip. Colo., p. 59, 1895.
Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Localities: Ga., Fla., Texas, Colo.

Genus **Rocconota** Stål
Logotype *sextuberculata* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 370, 1859; xxiii, p. 293, 1866.
Stål, Enum. Hemip., ii, pp. 69, 79, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 272, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 223, 242, 1913.

791. **Rocconota annulicornis** (Stål)

Stål, Enum. Hemip., ii, p. 77, 1872, *Heza.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Heza.*
Champion, Biol. Centr. Am., Heter., ii, p. 273, pl. 16, fig. 21, 1899.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 242, 1913.
Localities: N. J., Texas. (Mexico.)

Genus **Atrachelus** Am. & Serv.
Haplotype *heterogeneus* Am. & Serv. = *cinereus* (Fabr.)

Amyot and Serville, Hémip., p. 374, 1843.
Stål, Of. Vet. Akad. Forh., xxiii, p. 293, 1866.
Stål, Enum. Hemip., ii, pp. 66, 78, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 283, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 244, 1913.

792. **Atrachelus cinereus** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 545, 1796, *Reduvius.*
Fabricius, Syst. Rhyng., p. 287, 1803, *Zelus.*
Stål, Enum. Hemip., ii, p. 78, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 327, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 284, pl. 17, fig. 16, 1899.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Fracker, Proc. Ia. Acad. Sci., xix, p. 244, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
heterogeneus Amyot and Serville, Hémip., p. 374, pl. 7, fig. 4, 1843.
Localities: Pa., N. C., S. C., Fla., Texas. (Mexico.)

Genus **Doldina** Stål
Haplotype *carinulata* Stål

Stål, Of. Vet. Akad. Forh., xvi, pp. 366, 368, 1859; xxiii, p. 292, 1866.

Stål, Enum. Hemip., ii, p. 78, 1872 (as synon. of *Hygromystes*).
Bergroth, Ent. News, xxiv, p. 263, 1913.
Hygromystes Stål, Rio Jan. Hemip., i, p. 75, 1860 (type *lautus* Stål).
Stål, Of. Vet. Akad. Forh., xxiii, p. 292, 1866.
Stål, Enum. Hemip., ii, pp. 68, 78, 1872.

793. **Doldina praetermissa** Bergr.

Bergroth, Ent. News, xxiv, p. 264, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Localities: Fla. (Central America.)

794. **Doldina interjungens** Bergr.

Bergroth, Ent. News, xxiv, p. 263, 1913.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
Hygromystes sp. Bueno and Engelhardt, Can. Ent., xlii, p. 150, 1910.
Localities: Md., N. C.

TRIBE *HARPACTORINI* (Stål)

Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.
Van Duzee, Can. Ent., xlvi, p. 384, 1914, *Harpactocorinae*.
Hezida Stål, Berl. Ent., Zeit., iii, p. 328, 1859.

Genus **Heza** Am. & Serv.
Haplotype *binotata* Lep. & Serv.

Amyot and Serville, Hémip., p. 374, 1843.
Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.
Stål, Hemip. Afr., iii, p. 48, 1865.
Stål, Hemip. Fabr., i, p. 100, 1868.
Stål, Enum. Hemip., ii, pp. 68, 75, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 284, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 225, 244, 1913.

795. **Heza similis** Stål

Stål, Of. Vet. Akad. Forh., xvi, p. 199, 1859.
Stål, Hemip. Fabr., i, p. 100, 1868.
Stål, Enum. Hemip., ii, p. 76, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 285, pl. 17, figs. 17, 18, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 244, 1913.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 13, 1914.
Localities: Calif. (Neotropical.)

[**Heza clavata** Guerin. *See* Ashmead, Insect Life, vii, p. 321, 1895. Probably a wrong determination of *Atrachelus cinereus* or an allied form.]

Genus **Arilus** Burm.
Logotype *serratus* Fabr. = *carinatus* (Forst.)

Hahn, Wanz. Ins., i, p. 33, 1831 (nomen nudum, for *serratus* Fabr.).
Burmeister, Handb. d. Ent., ii, p. 227, 1835.
Herrich-Schaeffer, Wanz. Ins., viii, p. 33, 1848.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 196, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 287, 1899.

Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 245, 1913. [*Harpactor*).

‖*Prionotus* Laporte, Essai Classif. Syst. Hémip., p. 8, 1832 (subgen. of
Spinola, Essai sur les Hémip., p. 117, 1837 (names *serratus* Fabr. as
Amyot and Serville, Hémip., p. 356, 1843. [example).
Spinola, Tavola Sinot., p. 47, 1850.
Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859.
Stål, Hemip. Afr., iii, p. 47, 1865.
Stål, Enum. Hemip., ii, p. 72, 1872.

†*Zelus*, Div. 5, Blanchard, Hist. Nat. des Ins., Hémip., p. 102, 1840.

Prionidus Uhler, Check List, p. 23, 1886 (n.n. for *Prionotus* Lap.).

796. **Arilus cristatus** (Linn.)

Linnaeus, Cent. Ins. Rar., p. 16, 1763, *Cimex*.
Linnaeus, Syst. Nat., edn. 12, i, pt. 2, p. 723, 1767, *Cimex*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2195, 1788, *Cimex*.
Stål, Enum. Hemip., ii, p. 72, 1872, *Prionotus*.
Uhler, Proc. U. S. Geol. Geog. Surv., i, p. 327, 1876, *Prionotus*.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Prionotus*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 426, 1878, *Prionotus*.
Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Prionotus*.
Lintner, 6th Rept. N. Y. St. Ent., p. 138, 1890, *Prionidus*.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 283, 1894, *Prionidus*.
Champion, Biol. Centr. Am., Heter., ii, p. 288, 1899.
Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914. [fig. 2, *Reduvius*.

novenarius (Say), Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 71, pl. 31,
Say, Heter. N. Harm., p. 33, 1832; Fitch reprint, p. 803; Compl. Writ.,
Stål, Of. Vet. Akad. Forh., xvi, p. 196, 1859, *Prionotus*. [i, p. 358, *Nabis*.
Walker, Cat. Heter., viii, p. 76, 1873, *Prionotus*.

denticulatus Westwood in Drury, Illust. Exot. Ent., edn. 2, p. 73, 1837.

patulus (Walker), Cat. Heter., viii, p. 76, 1873, *Prionotus*.

Localities: N. J., Pa., Del., Md., D. C., N. C., S. C., Fla., Okl.,
Texas, N. Mex.

Genus **Acholla** Stål

Haplotype *sex-spinosa* Wolff = *multispinosa* (De Geer)

Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862.
Stål, Hemip. Afr., iii, p. 47, 1865.
Stål, Enum. Hemip., ii, pp. 67, 72, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 178, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 289, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 245, 1913.

‖*Ascra* Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862 (type *tabida* Stål).

797. **Acholla multispinosa** (De Geer)

De Geer, Mémoires, iii, p. 348, pl. 35, fig. 10, 1773, *Cimex* (part).
Goeze, Ent. Beytr., ii, p. 271, 1778, *Cimex*.
Retzius, Genera et Spec. Ins., p. 87, 1783, *Cimex*.
Stål, Enum. Hemip., ii, p. 72, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 428, 1878.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 156, 1910.
Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.
sexspinosa (Wolff), Icon. Cimic., iii, p. 124, fig. 118, 1802, *Reduvius.*
Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862. [*Harpactor.*
subarmatus (Herrich-Schaeffer), Wanz. Ins., viii, p. 83, fig. 852, 1848, *Reduvius sp.* Emmons, Nat. Hist. N. Y., Agr., v, p. 168, 1854.
stimulatrix (Emmons), Nat. Hist. N. Y., Agr., v, pl. 29, fig. 8, 1854, *Sinea.*
Localities: Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ill., Wis., Ia., Neb., Kan., Colo., Ariz.

798. **Acholla ampliata** Stål

Stål, Enum. Hemip., ii, p. 72, 1872.
Champion, Biol. Centr. Am., Heter., ii, p. 290, pl. 18, fig. 1, 1899.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.
Localities: N. Mex., Ariz. (Mexico.)

799. **Acholla tabida** (Stål)

Stål, Stet. Ent. Zeit., xxiii, pp 446, 1862, *Ascra.*
Stål, Enum. Hemip., ii, p. 72, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 290, 1899.
Fracker, Proc. Ia. Acad. Sci., xix, p. 245, 1913.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
Localities: Calif. (Mexico.)

Genus **Sinea** Am. & Serv.
Logotype *multispinosa* Am. & Serv. = *diadema* (Fabr.)

Amyot and Serville, Hémip., p. 375, 1843.
Stål, Stet. Ent. Zeit., xxii, p. 137, 1861; xxiii, p. 443, 1862.
Stål, Hemip. Afr., iii, p. 47, 1865.
Stål, Enum. Hemip., ii, p. 70, 1872.
Walker, Cat. Heter., vii, pp. 49, 54, 1873.
Provancher, Pet. Faune Ent. Can., iii, p. 180, 1887.
Champion, Biol. Centr. Am., Heter., ii, p. 291, 1899.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 2, 1901 (monograph).
Fracker, Proc. Ia. Acad. Sci., xix, pp. 224, 246, 1913.

800. **Sinea diadema** (Fabr.)

Fabricius, Genera Ins., p. 302, 1776, *Reduvius.*
Goeze, Ent. Beytr., ii, p. 252, 1778, *Cimex.*
Fabricius, Spec. Ins., ii, p. 382, 1781, *Reduvius.*
Fabricius, Mantissa Ins., ii, p. 313, 1787, *Reduvius.*
Gmelin, *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2196, 1788, *Cimex.*
Fabricius, Ent. Syst., iv, p. 206, 1794, *Reduvius.*
Fabricius, Syst. Rhyng., p. 286, 1803, *Zelus.*
Stål, Enum. Hemip., ii, p. 70, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876; iii, p. 429, 1877; iv, p. [508, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 360, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 180, 1887.

Van Duzee, Can. Ent., xxi, p. 5, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894.
Gillette and Baker, Hemip. Colo., p. 59, 1895.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 3, 1901.
Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.
Heidemann, Proc. Ent. Soc. Wash., xiii, p. 135, 1911 (egg).
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
Parker, Ent. News, xxvii, p. 280, 1916 (habits).
multispinosus (De Geer), Mémoires, iii, p. 348, pl. 35, fig. 11, 1773, *Cimex* [(part, fig. 11 only refers to this species).
hispidus (Thunberg), Nova Ins. Spec., ii, p. 33, 1783, *Cimex*.
Stål, Of. Vet. Akad. Forh., xxiii, p. 264, 1866, *Irantia*. [*Cimex*.
sctosus (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2144, 1788,
raptatorius (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 327, 1825; Compl. [Writ., ii, p. 249, *Reduvius*.
Say, Am. Ent., ii, pl. 31, 1825; Compl. Writ., i, p. 72, pl. 31, fig. 1,
†*multispinosa* Amyot and Serville, Hémip., p. 375, 1843. [*Reduvius*.
Stål, Stet. Ent. Zeit., xxii, p. 139, 1861; xxiii, p. 443, 1862.
Stål, Hemip. Fabr., i, p. 97, 1868.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872.
Walker, Cat. Heter., viii, p. 139, 1873.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., Va., N. C., S. C., Ga., Fla., Wis., Neb., Dak., Kan., Colo., Utah, Okl., Idaho, Calif.

801. **Sinea undulata** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 6, 1901.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Localities: Calif. (Mexico.)

802. **Sinea confusa** Caud.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 6, 1901.
Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1906.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
†*integra* Uhler, Check List, p. 23, 1886.
†*undulata* Champion, Biol. Centr. Am., Heter., ii, p. 292, pl. 18, fig. 5, 1899.
Localities: Texas, Ariz., Calif. (Mexico.)

803. **Sinea coronata** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.
Stål, Enum. Hemip., ii, p. 71, 1872.
Walker, Cat. Heter., viii, p. 138, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 292, pl. 18, figs. 6, 7, 1899.
Caudell, Jl. N. Y., Ent. Soc., ix, p. 7, pl. 1, fig. 2, 1901.
Barber, Brookl. Inst., Sci. Bul., i, p. 286, 1908.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Localities: Texas, Calif. (Mexico.)

804. **Sinea complexa** Caud.

Caudell, Jl. N. Y. Ent. Soc., ix, p. 7, pl. 1, fig. 3, 1901.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
Localities: Colo., Utah, Ariz., Calif.

805. **Sinea raptoria** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.
Stål, Enum. Hemip., ii, p. 71, 1872.
Walker, Cat. Heter., viii, p. 139, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876.
Champion, Biol. Centr. Am., Heter., ii, p. 293, pl. 18, fig. 10, 1899.
Caudell, Jl., N. Y. Ent. Soc., ix, p. 9, pl. 1, fig. 6, 1901.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
denticulosa Stål, Enum. Hemip., ii, p. 71, 1872.
Localities: Ariz., Calif. (Neotropical.)

806. **Sinea sanguisuga** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 444, 1862.
Stål, Enum. Hemip., ii, p. 71, 1872.
Walker, Cat. Heter., viii, p. 139, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 294, pl. 18, fig. 12, 1899.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 9, pl. 1, figs. 7, 8, 1901.
Bergroth, Revue d'Ent., xxiv, p. 108, 1905.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Localities: Texas. (Neotropical.)

807. **Sinea spinipes** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 82, fig. 851, 1848, *Harpactor*.
Stål, Enum. Hemip., ii, p. 71, 1872.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 10, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Bueno, Can. Ent., xliv, p. 213, 1912.
Fracker, Proc. Ia. Acad. Sci., xix, p. 247, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Localities: N. Y., Ga., Fla., Kan., Colo.

808. **Sinea rileyi** Montd.

Montandon, Proc. U. S. Natl. Mus., xvi, p. 51, 1893.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 10, 1901.
Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 159, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Fracker, Proc. Ia. Acad. Sci., xix, p. 247, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 506, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
Localities: N. C., Fla., Texas, Utah, Ariz., Calif.

809. **Sinea defecta** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 445, 1862.
Stål, Enum. Hemip., ii, p. 71, 1872.
Walker, Cat. Heter., viii, pp. 139, 140, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 295, 1899.
Caudell, Jl. N. Y. Ent. Soc., ix, p. 11, 1901.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Fracker, Proc. Ia. Acad. Sci., xix, p. 246, 1913.
Localities: Ariz. (Mexico.)

PHALANX *HEBRIFORMES* Oshanin*

Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Ripicolae Amyot and Serville, Hémip., pp. xl, 293, 1843. [family).
Hebroideae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910 (super-
Mesoveliiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 61, 1910 [(Phalynx).
Naeogeiformes Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, [pp. 23, 49, 1912 (Phalynx).

Family HEBRIDAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. xl, 293, 1843, *Hebrides.*
Fieber, Genera Hydroc., p. 9, 1851, *Hebroidea.*
Dohrn, Cat. Hemip., p. 41, 1859, *Hebridae.*
Flor, Rhyn. Livl., i, p. 371, 1860, *Hebroidea.*
Fieber, Europ. Hemip., pp. 23, 32, 104, 1861, *Hebridae.*
Douglas and Scott, Brit. Hemip., p. 25, 1865, *Hebridae.*
Walker, Cat. Heter., viii, p. 159, 1873.
Berg, Hemip. Argent., p. 116, 1884.
Puton, Cat. Hémip. Palae., p. 36, 1896, *Hebrides.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 51, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 117, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 167, 1903.
Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 482, 1908.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 78, 1910.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Naeogeidae Kirkaldy, Fauna Hawai., iii, p. 168, 1902.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 214, 1908.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910. [1912.
Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 23, 49, 55,

Genus **Hebrus** Curt.
Haplotype *pusillus* (Fall.)

Curtis, Ent. Mag., i, p. 198, 1833.
Westwood, Ann. Soc. Ent. Fr., Ser. 1, iii, p. 652, 1834.
Burmeister, Handb. d. Ent., ii, p. 214, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 296, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 97, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840.
Amyot and Serville, Hémip., p. 293, 1843.
Spinola, Tavola Sinot., p. 44, 1850.
Flor, Rhyn. Livl., i, p. 372, 1860.

* Dr. Bergroth writes me that Horvath now finds this phalanx pertains to the Hydrobiotica. It may follow the Veliidae.

Fieber, Europ. Hemip., pp. 32, 104, 1861.
Douglas and Scott, Brit. Hemip., p. 263, 1865.
Walker, Cat. Heter., viii, p. 159, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 117, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 167, 1903.
Oshanin, Verz. Palae. Hemip., i, p. 482, 1908.
Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.
†*Naeogaeus* Kirkaldy, Entomologist, p. 241, 1900.
Bergroth, Wien. Ent. Zeit., xxxi, p. 164, 1912.

810. **Hebrus burmeisteri** L. & S.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 51, 1896.
Kirkaldy, Proc. Ent. Soc. Wash., x, p. 214, 1908, *Naeogaeus*.
Parshley, Ent. News, xxvii, p. 105.
†*pusillus* Burmeister, Handb. d. Ent., ii, p. 214, 1835.
Van Duzee, Psyche, v, p. 240, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
Localities: N. H., Mass., N. Y., Pa., Ill.

811. **Hebrus sobrinus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 452, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330 (as new).
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 288, 1894.
Gillette and Baker, Hemip. Colo., p. 61, 1895.
Localities: Colo., Ariz., Calif.

812. **Hebrus concinnus** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 221.
Gillette and Baker, Hemip. Colo., p. 61, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 121, 1898.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 234, 1908, *Naeogaeus*.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910, *Naeogaeus*.
Bueno, Can. Ent., xliv, p. 212, 1912, *Naeogaeus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Naeogaeus*.
Localities: Quebec, Ont., N. Y., N. J., Pa., Md., Fla., Ill., Colo., Calif., Wash. (Neotropical.)

813. **Hebrus consolidus** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 222.
Champion, Biol. Centr. Am., Heter., ii, p. 119, pl. 8, fig. 4, 1898.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: Fla. (Neotropical.)

Family **MESOVELIIDAE** D. & S.

Douglas and Scott, Ent. Mo. Mag., iv, p. 3, 1867, Tribe.
Puton, Synop. Heter. Fr., i, p. 145, 1879, Tribe *Mesovelini*.
Reuter, Ent. Tidskr., iii, p. 165, 1882, Subfam. *Mesoveliina*.
Puton, Cat. Hémip. Palae., edn. 3, p. 36, 1886, Tribe *Mesovelini*.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 53, 1896, Subfamily.
Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903, Subfam. *Mesoveliinae*.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906, Subfam. *Mesoveliinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 67, 1910, *Mesoveliadae.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 23, 1912, *Meso-*
Oshanin, Kat. Palae. Hemip., p. 56, 1912. [*veliadae.*

Genus **Mesovelia** M. & R.
Type *furcata* Muls. & Rey

Mulsant and Rey, Ann. Soc. Linn. Lyons, 1852, p. 138.
Fieber, Europ. Hemip., pp. 33, 105, 1861.
Douglas and Scott, Ent. Mo. Mag., iv, p. 4, 1867.
Puton, Synop. Heter. Fr., i, p. 146, 1879.
Champion, Biol. Centr. Am., Heter., ii, p. 123, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 484, 1908. [Jak.)
Fieberia Jakowlef, Trudy Russk. Ent., vii, p. 32, 1874. (Type *lacustris*

814. **Mesovelia mulsanti** White

White, Trans. Ent. Soc. Lond. for 1879, p. 268.
Champion, Biol. Centr. Am., Heter., ii, p. 123, pl. 8, figs. 10, 11, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 168, 1903.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
bisignata Uhler, Stand. Nat. Hist., ii, p. 274, fig. 324, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 217.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 289, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 505, 1899.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910.
?orientalis Kirkaldy, Ann. Mus. Civ. Genoa, xl, p. 808, 1901.
Localities: Mass., N. Y., N. J., Md., N. C., Fla., Ohio, Ill., Kan., Texas.

PHALANX *NABIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxiii, No. 3, p. 72, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 49, 1912.
Oshanin, Kat. Palae. Hemip., p. 54, 1912.

Family **NABIDAE** (Costa)

Costa, Cimic. Neap., Cent., iii, p. 66, 1852, Subfam. *Nabini.*
Stål, Of. Vet. Akad. Forh., xv, p. 247, 1858, Subfam. *Nabides.*
Dohrn, Cat. Hemip., p. 51, 1859.
Fieber, Europ. Hemip., pp. 25, 57, 1861.
Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862, *Nabida.*
Stål, Hemip. Afr., iii, p. 37, 1865, *Nabida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 674, 1870, *Nabina.*
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 68, 1872.

Stål, Enum. Hemip., iii, p. 106, 1873.
Uhler, Check List., p. 23, 1886.
Puton, Cat. Hémip. Palae., edn. 3, p. 40, 1886, Tribe *Nabini*.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 202, 1896 (as subfamily).
Champion, Biol. Centr. Am., Heter., ii, p. 297, 1899.
Kirkaldy, Wien. Ent. Zeit., xx, p. 219, 1901.
Kirkaldy, Fauna Hawai., iii, p. 153, 1902, Subfam. *Nabinae*.
Distant, Fauna Br. Ind., Rhyn., ii, p. 389, 1904, Subfam. *Nabinae*.
Kirkaldy, Proc. Hawai. Ent. Soc., i, p. 155, 1907.
Kirkaldy, Can. Ent., xl, p. 360, 1908.
Reuter, Mém. Soc. Ent. Belg., xv, p. 87, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 563, 1908.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 73, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 49, 56, 1912.
Banks, Cat. Neare. Hemip., p. 21, 1910.
Oshanin, Kat. Palae. Hemip., p. 54, 1912.

Subfamily **PROSTEMMINAE** (Reut.)

Reuter, Revue d'Ent., ix, p. 289, 1890, *Prostemmina*.
Distant, Fauna Br. Ind., Rhyn., ii, p. 391, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 564, 1908.
Oshanin, Kat. Palae. Hemip., p. 54, 1912.
Nabina Stål, Enum. Hemip., iii, pp. 106, 107, 1873.
Uhler, Check List, p. 23, 1886.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.

Genus **Pagasa** Stål
Haplotype *pallidiceps* Stål

Stål, Rio Jan. Hemip., ii, p. 60, 1862.
Stål, Hemip. Afr., iii, p. 38, 1865.
Stål, Enum. Hemip., iii, pp. 107, 108, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 297, 1899.
Reuter, Mém. Soc. Ent. Belg., xv, p. 88, 1908.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 25, 1909.

Subgenus **Pagasa** Stål
Reuter and Poppius, Act Soc. Sci. Fenn., xxxvii, No. 2, p. 25, 1909.

815. **Pagasa pallipes** Stål
Stål, Enum. Hemip., iii, p. 108, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876.
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893.
Champion, Biol. Centr. Am., Heter., ii, p. 299, pl. 18, fig. 18, 1899.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 29, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: Fla., Kan., Texas, Utah.

Subgenus **Lampropagasa** R. & P.
Orthotype *fusca* Stein

Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 30, 1909.

816. **Pagasa fusca** (Stein)

Stein, Berl. Ent. Zeit., i, p. 90, 1857, *Prostemma.*
Reuter, Revue d' Ent., ix, p. 291, 1890.
Champion, Biol. Centr. Am., Heter., ii, p. 299, pl. 18, fig. 17, 1899.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 232, 1908.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 31, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
Parshley, Psyche, xxi, p. 143, 1914.
nitida Stål, Enum. Hemip., iii, p. 108, 1873.
Berg, Hemip. Argent., Add., p. 105, 1884.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894.
Localities: Me., N. Y., N. J., Pa., Wis., Colo., Manitoba, Br. Col.

Genus **Phorticus** Stål
Logotype *viduus* Stål

Stål, Rio Jan. Hemip., i, p. 69, 1860.
Stål, Enum. Hemip., iii, pp. 107, 109, 1873.
Reuter, Revue d'Ent., ix, p. 290, 1890.
Reuter, Wien. Ent. Zeit., xii, p. 317, 1893.
Champion, Biol. Centr. Am., Heter., ii, p. 300, 1899.
Distant, Fauna Br. Ind., Rhyn., ii, p. 395, 1904 (names *viduus* type).
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 49, 1909.

817. **Phorticus collaris** Stål

Stål, Enum. Hemip., iii, p. 109, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 301, pl. 18, fig. 21, 1899.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 54, 1909.
Localities: Texas. (Mexico.)

Subfamily NABINAE (Reut.)

Reuter, Revue d'Ent., ix, p. 293, 1890, *Nabina.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 397, 1904, Div. *Nabidinaria.*
Oshanin, Verz. Palae. Hemip., i, p. 568, 1908.
Oshanin, Kat. Palae., Hemip., p. 55, 1912.
Coriscina Stål, Enum. Hemip., iii, pp. 106, 110, 1873.
Uhler, Check List, p. 23, 1886.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Coriscidae.*
Arachnocorina Reuter, Revue d'Ent., ix, p. 292, 1890.
Reduviolina Reuter, Mém. Soc. Ent. Belg., xv, p. 129, 1908.
Reuter and Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 2, p. 3, 1909.

TRIBE *NABINI* Van D.

Van Duzee, Check List Hemip., p. 32, 1916.
Reduviolaria Reuter (Division).
[I cannot find that this division was ever established, but it is inferred in the following: Reuter, Ann. Soc. Ent. Belg., liii, p. 423, 1909.]

Genus **Nabis** Latr.
Logotype *vagans* Fabr. = *ferus* (Linn.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 248, 1802 (for *guttula* and *vagans*).
Latreille, Hist. Nat. Crust. Ins., xii, p. 255, 1804 (gives *apterus* and *guttula*
Latreille, Genera Crust. Ins., iii, p. 127, 1807. [as examples).

Latreille, Consid. Génl., pp. 256, 433, 1810 (names *apterus* type; invalid).
Laporte, Essai Classif. Syst. Hémip., p. 11, 1832 (cites *apterus* as type).
Hahn, Wanz. Ins., iii, p. 30, 1835.
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.
Burmeister, Handb. d. Ent., ii, pp. 241, 399, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 322, pl. 25, fig. 1, 1835 (subgen. of *Reduvius*).
Spinola, Essai sur les Hémip., p. 105, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 107, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *vagans* [Fabr. type, valid).
Amyot and Serville, Hémip., p. 330, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 95, 1853.
Flor, Rhyn. Livl., i, p. 690, 1860; ii, p. 618, 1861.
Fieber, Europ. Hemip., pp. 43, 159, 1861.
Stål, Hemip. Afr., iii, pp. 38, 41, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 60, 80, 1872 (European forms).
Walker, Cat. Heter., vii, p. 139, 1873.
Reuter, Revue d'Ent., ix, p. 293, 1890 (Monograph).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 207, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 301, 1899.
Distant, Fauna Br. Ind., Rhyn., ii, p. 399, 1904 (gives *apterus* Fabr. as type).
Oshanin, Verz. Palae. Hemip., i, p. 568, 1908.
Oshanin, Kat. Palae. Hemip., p. 55, 1912.
Van Duzee, Can Ent., xlvi, p. 385, 1914.

†*Miris* Leach, Brewster's Edinbg. Encyc., ix, p. , 1815; Am. edn., viii, [p. 711, 1832 (for *vagans* Wolff).

†*Aptus* Hahn, Wanz. Ins., i, p. 35, 1831.

Reduviolus Kirby, Richardson's Fauna Bor. Am., iv, p. 279, 1837. (Haplo-
Kirkaldy, Entomologist, xxxii, p. 242, 1900. [type *inscriptus*.)
Reuter, Mém. Soc. Ent. Belg., xv, p. 93, 1908 (Systematic).
Banks, Cat. Nearc. Hemip., p. 22, 1910.

†*Coriscus* Stål, Enum. Hemip., iii, p. 112, 1873.
Berg, Hemip. Argent., p. 143, 1879.
Uhler, Check List., p. 23, 1886.

Subgenus **Nabicula** Kirby
Haplotype *subcoleoptratus* Kirby

Kirby, Richardson's Fauna Bor. Am., iv, p. 281, 1837.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 80, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873.
Reuter, Revue d'Ent., ix, p. 295, 1890.

818. **Nabis subcoleoptratus** Kirby

Kirby, Richardson's Fauna Bor. Am., iv, p. 282, 1837; Bethune's reprint, p.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872. [138, *Nabicula*.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 80, 81, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876; iv, p. 508, 1878, *Coriscus*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 423, 1878, *Coriscus*.
Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Nabicula*.
Provancher, Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 182, 1894, *Coriscus*.
Kirkaldy, Wien. Ent. Zeit., xx, p. 222, 1901, *Reduviolus*.

Distant, Ann. Mag. Nat. Hist., Ser. 7, xi, p. 367, 1903.
Reuter, Mém. Soc. Ent. Belg., xv, p. 98, 1908, *Reduviolus.*
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910, *Reduviolus.*
Van Duzee, Can. Ent., xliv, p. 323, 1912, *Reduviolus.*
canadensis Prov. Nat. Can., i, p. 211, 1869.
[*marginatus* Uhl. MS] Riley, 2d Rept. Nox. Ins. Mo., p. 32, 1870. [tion).
[*xanthopus* MSS] Walker, Cat. Heter., vii, p. 143, 1873 (without descrip-
†*propinquus* Provancher, Pet. Faune Ent. Can., iii, p. 175, 1887, *Coriscus.*
Localities: No. Sco., Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Ill., Wis., Dak., Neb., Kan., Colo., Texas.

Subgenus **Hoplistoscelis** Reut.
Logotype *sericans* Reut. = *nigriventris* Stål

Reuter, Revue d'Ent., ix, pp. 294, 295, 1890.
Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901.
Reuter, Mém. Soc. Ent. Belg., xv, p. 99, 1908.

819. **Nabis nigriventris** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 458, 1862.
Stål, Enum. Hemip., iii, p. 114, 1873, *Coriscus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876, *Coriscus.*
Champion, Biol. Centr. Am., Heter., ii, p. 302, pl. 18, fig. 25, 1899.
Reuter, Mém. Soc. Ent. Belg., xv, p. 99, 1908, *Reduviolus.*
sericans Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 83, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus.*
Reuter, Revue d'Ent., ix, p. 296, 1890.
Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904, *Coriscus.*
†*roripes* Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706, *Coriscus.*
Localities: Texas, N. Mex., Colo.. (Neotropical.)

820. **Nabis sordidus** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 85, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus.*
Reuter, Revue d'Ent., ix, p. 299, 1890.
Champion, Biol. Centr. Am., Heter., ii, p. 203, pl. 18, figs. 26, 27, 28, 1899.
Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 25, 1907.
Reuter, Mém. Soc. Ent. Belg., xv, p. 100, 1908, *Reduviolus.*
Bueno, Can. Ent., xliv, p. 212, 1912, *Reduviolus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
pallescens Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 85, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus.*
Reuter, Revue d'Ent., ix, p. 298, 1890.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894, *Coriscus.*
Smith, Cat. Ins. N. J., edn. 3, p. 149, 1910.
†*crassipes* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus.*
†*sericans* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus.*
Localities: N. J., Pa., Md., D. C., Fla., La., Texas, Wis.

821. **Nabis crassipes** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 83, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus.*
Reuter, Revue d'Ent., ix, p. 297, 1890.
Champion, Biol. Centr. Am., Heter., ii, p. 302, pl. 18, figs. 22, 23, 24, 1899.
Localities: Ga. Texas, Calif.

822. **Nabis heidemanni** Reut.

Reuter, Mém. Soc. Ent. Belg., xv, p. 100, 1908, *Reduviolus.*
Locality: Calif.

Subgenus **Lasiomerus** Reut.
Orthotype *annulatus* Reut.

Reuter, Revue d'Ent., ix, pp. 294, 305, 1890.
Reuter, Mém. Soc. Ent. Belg., ix, p. 102, 1908. [*spinicrus* Reut.)
Acanthonabis Reuter, Revue d'Ent., ix, pp. 294, 305, 1890. (Haplotype

823. **Nabis annulatus** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 86, 1872.
Stål, Enum. Hemip., iii, p. 112, 1873, *Coriscus.*
Reuter, Revue d'Ent., ix, p. 305, 1890 (noted as type).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus.*
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910, *Reduviolus.*
Localities: Ont., N. Y., N. J., Pa., Ohio, Ill.

824. **Nabis spinicrus** Reut.

Reuter, Revue d'Ent., ix, p. 305, 1890.
Reuter, Mém. Soc. Ent. Belg., xv, p. 103, 1908, *Reduviolus.*
†*capsiformis* Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706, *Coriscus.*
signatus Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus.* [1900.
Champion, Biol. Centr. Am., Heter., ii, p. 304, pl. 18, figs. 31, 32, 33.
Localities: "S. St." (Neotropical.)

Subgenus **Dolichonabis** Reut.
Logotype *limbatus* Dahlb.

Reuter, Mém. Soc. Ent. Belg., xv, p. 104, 1908.

825. **Nabis propinquus** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 87, 1872.
Reuter, Revue d'Ent., ix, p. 308, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus.*
Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus.*
Reuter, Mém. Soc. Ent. Belg., xv, p. 105, 1908, *Reduviolus.*
vicarius Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 87, 1872 (male).
‖*elongatus* Hart, Bul. Ill. St. Lab. Nat. Hist., vii, pp. 262, errata, 1907.
Localities: Quebec, Ont., N. Y., Ohio, Ill., Wis.

826. **Nabis limbatus** Dahlb.

Dahlbom, Kong. Vet. Akad. Handl., , p. 227, 1850.
Flor, Rhyn. Livl., i, p. 695, 1860.
Douglas and Scott, Brit. Hemip., p. 551, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 70, 87, 1872.

Reuter, Mém. Soc. Ent. Belg., xv, p. 107, 1908, *Reduviolus.*
†*vicarius* Van Duzee, 20th Rept. N. Y. St. Ent. for 1905, p. 550, 1905,
Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Coriscus.* [*Coriscus.*
Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus.*
Localities: Quebec, Ont., N. Y., Colo. (Palaearctic.)

Subgenus **Nabis** Latr.

Reuter, Revue d'Ent., ix, pp. 294, 307, 1890.
†*Coriscus* Stål, Enum. Hemip., iii, p. 113, 1873 (as subgenus).
†*Reduviolus* Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908 (as subgenus).

827. **Nabis flavomarginatus** Scholtz

Scholtz, Arb. Schles. Ges. Vat. Kultur., p. 114, 1846.
Flor, Rhyn. Livl., i, p. 696, 1860.
Fieber, Europ. Hemip., p. 161, 1861.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 71, 88, 1872.
Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908.
dorsatus Dahlbom, Kong. Vet. Akad. Handl., , p. 227, 1850.
nervosus Boheman, Of. Vet. Akad. Forh., ix, p. 77, 1852.
thesigus Kolenati, Melet. Ent., iv, p. 258, 1856.
Localities: "Greenland," Canada. (Palaearctic.)

a. var. **sibericus** (Reut.)
Reuter, Pet. Nouv. Ent., ii, p. 545, 1875, *Coriscus.*
Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 32, 1878, *Coriscus.*
Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908, *Reduviolus.*
Localities: Greenland, Alaska. (Siberia.)

b. var. **vanduzeei** (Kirk.)
Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901, *Reduviolus.*
Reuter, Mém. Soc. Ent. Belg., xv, p. 111, 1908, *Reduviolus.*
Localities: Colo., Wash.

828. **Nabis capsiformis** Germ.

Germar, Silberm. Revue Ent., v, p. 132, 1837.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 88, 1872.
Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus.*
Puton, Synop. Heter. Fr., iii, p. 187, 1880.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 205, *Coriscus.*
Kirkaldy, Wien. Ent. Zeit., xx, p. 223, 1901, *Reduviolus.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 300, fig. 256, 1904.
Reuter, Mém. Soc. Ent. Belg., xv, p. 114, 1908, *Reduviolus.*
Van Duzee, Can. Ent., xli, p. 127, 1909, *Reduviolus* (occurrence).
Reuter, Of. Finska Vet. Soc. Forh., lv, Afd. A, No. 14, p. 77, 1913, *Reduviolus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914, *Reduviolus.*
angusta Spinola, Essai sur les Hémip., p. 107, 1837 (1840). [p. 79, 1838.
‖*angustus* Brullé, Anim. Art. rec. aux Canar. par Webb et Berth., Hemip.,
longipennis Costa, Atti Inst. Natl. for Napol. for 1848, p. 750.
Fieber, Europ. Hemip., p. 161, 1861.
caffra Stål, Of. Vet. Akad. Forh., xii, p. 39, 1855.
Stål, Hemip. Afr., iii, p. 41, 1865.
elongatus Meyer-Dur, Mitth. Schweiz. Ent. Ges., iii, p. 170, 1870.
Berg, Hemip. Argent., p. 144, 1879, *Coriscus.*
kinbergi Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 90, 1872.

sandersi White, Ent. Mo. Mag., xv, p. 159, 1878.
brullei Lethierry and Severin, Cat. Génl. Hémip., iii, p. 208, 1896.
Localities: N. C., S. C., Fla., Miss., Texas. (Bermudas, Neotropical, Europe, Asia, Africa, Australia.)

829. **Nabis ferus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 449, 1758, *Cimex.*
Linnaeus, Fauna Suec., edn. 2, p. 256, No. 962, 1761, *Cimex.*
Linnaeus, Syst. Nat., edn. 12, ii, p. 731, 1767, *Cimex.*
Fabricius, Syst. Ent., p. 726, 1775, *Cimex.*
Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris.*
Fabricius, Syst. Rhyng., p. 255, 1803, *Miris.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris.*
Fallén, Monog. Cimic. Suec., p. 112, 1807, *Miris.*
Zetterstedt, Fauna Lapp., p. 503, 1828, *Miris.*
Fallén, Hemip. Suec., Cimic., p. 133, 1829, *Miris.*
Hahn, Wanz. Ins., iii, p. 31, fig. 252, 1835.
Herrich-Schaeffer, Nomen. Ent., i, pp. 62, 99, 1835.
Zetterstedt, Ins. Lapp., column 282, 1840, *Miris.*
Rambur, Fauna Andul., p. 170, 1842.
Amyot and Serville, Hémip., p. 332, 1843.
Flor, Rhyng. Livl., i, p. 698, 1860.
Fieber, Europ. Hemip., p. 161, 1861.
Douglas and Scott, Brit. Hemip., p. 555, 1865.
Reuter, Of. Vet. Akad. Forh., xxix, No. 6, pp. 73, 90, 1872.
Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876; iii, p. 428, 1877, *Coriscus.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Coriscus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 508, 1878, *Coriscus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 421, 1878, *Coriscus.*
Uhler, Stand. Nat. Hist., ii, p. 282, 1884, *Coriscus.*
Provancher, Pet. Faune Ent. Can., iii, p. 176, 1887, *Coriscus.*
Reuter, Revue Synon., p. 343, No. 310, 1888.
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Coriscus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 282, 1894, *Coriscus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus.*
Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900.
Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906.
Van Duzee, Can. Ent., xl, p. 111, 1908, *Reduviolus.*
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910, *Reduviolus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914. [name).
Cimex No. 48, Geoffroy, Hist. Abreg. des Ins., i, p. 458, 1762 (without
tripunctatus (Muller), Zool. Danica, p. 107, 1776, *Cimex.*
scutello-maculatus (Goeze), Ent. Beytr., ii, p. 271, 1778, *Cimex.*
marginato-striatus (Goeze), Ent. Beytr., ii, p. 279, 1778, *Cimex.*
sponsalis Geoffroy *in* Fourcroy, Ent. Paris., i, p. 210, 1785, *Cimex.*
vagans (Fabricius), Mantissa Ins., ii, p. 307, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris.*
Latreille, Hist. Nat. Crust. Ins., iii, p. 249, 1802.
Fabricius, Syst. Rhyng., p. 255, 1803, *Miris.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris.*
Burmeister, Handb. d. Ent., ii, p. 242, 1835. [of *Nabis*).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (as type

triops (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2179, 1788, [*Cimex.*

sexstriatus (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2182, [1788, *Cimex.*

denigratus (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2194,

heraldicus (Schrank), Fauna Boica, p. 83, 1801, *Cimex.* [*Cimex.*

crassipes (Schrank), Fauna Boica, p. 99, 1801, *Cimex.*

pallens (Panzer) *in* Schaeffer, Icones Ins., p. 163, 1804, *Reduvius.*

cinereus Olivier, Encyc. Meth., vii, p. 140, 1811.

Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., Pa., Md., N. C., Ga., Mich., Wis., Neb., Dak., Kan., Colo., Utah, Texas, N. Mex., Ariz., Calif. (Palaearctic, Mexico.)

a. var. **punctatus** Costa

Costa, Cimic. Reg. Neap., Cent., ii, p. 14, 1843.

Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900, *Coriscus.*

Oshanin, Verz. Palae. Hemip., i, p. 576, 1908.

?agilis Spinola, Essai sur les Hemip., p. 106, 1837.

Localities: "Nearctic." (Europe, Mexico, Guatemala.)

[**Nabis perennis** Fitch MS]

Walker, Cat. Heter., vii, p. 143, 1873.

Locality: N. Y.

830. **Nabis roseipennis** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 89, 1872.

Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus.*

Reuter, Revue d'Ent., ix, p. 308, 1890.

Reuter, Mém. Soc. Ent. Belg., xv, p. 118, 1908, *Reduviolus.*

punctipes Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 89, 1872.

Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus.*

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 326, 1876, *Coriscus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus.*

Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus.*

†*inscriptus* (Van Duzee), Can. Ent., xxi, p. 5, 1889, *Coriscus.* [*olus.*

[*rudis* Uhler MS], Reuter, Mém. Soc. Ent. Belg., xv, p. 118, 1908, *Reduvi-*

Localities: Ont., N. Y., N. J., Pa., Del., D. C., Ohio, Wis., Ia., Neb., Colo.

831. **Nabis rufusculus** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 92, 1872.

Stål Enum. Hemip., iii, p. 113, 1873, *Coriscus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 183, 1894, *Coriscus.*

Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus.*

Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Coriscus.*

Reuter, Mém. Soc. Ent. Belg., xv, p. 119, 1908, *Reduviolus.*

assimilis (Uhler), Proc. Bost. Soc. Nat. Hist., xix, p. 422, 1878, *Coriscus.*

chewkeanus (Kirkaldy), Wien. Ent. Zeit., xx, p. 224, 1901, *Reduviolus.* [(For *cherokeanus.*)

Localities: Ont., Me., Mass., N. Y., Md., D. C., Va., N. C., Ill., Wis., Colo.

832. **Nabis inscriptus** (Kirby)

Kirby *in* Richardson's Fauna Bor. Am., iv, p. 280, pl. 6, fig. 7, 1857, *Reduvi-*

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872. [*olus.*

Stål, Enum. Hemip., iii, p. 113, 1873, *Coriscus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.
Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Coriscus*.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Coriscus*.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Coriscus*.
Reuter, Mém. Soc. Ent. Belg., xv, p. 120, 1908, *Reduviolus*.
Oshanin, Verz. Palae. Hemip., i, p. 578, 1908.
Reuter, Of. Finska Vet. Soc. Forh., lv, Afd. A, No. 14, p. 82, 1913, *Reduviolus*.
borealis Reuter, Meddel. Of. Soc. p. Fauna Flora Fenn., xi, p. 165, 1884.
Localities: Ont., Me., N. Y., Br. Col.

833. **Nabis kalmii** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 91, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 325, 1876, *Coriscus*.
Gillette and Baker, Hemip. Colo., p. 59, 1895, *Coriscus*.
Kirkaldy, Wien. Ent. Zeit., xx, p. 225, 1901, *Reduviolus*.
Reuter, Mém. Soc. Ent. Belg., xv, p. 119, 1908, *Reduviolus*.
Localities: Wis., Mo., Colo., Neb.

Genus **Metatropiphorus**
Haplotype *belfragii* Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 93, 1872.
Stål, Enum. Hemip., iii, pp. 110, 111, 1873.

834. **Metatropiphorus belfragii** Reut.

Reuter, Of. Vet. Akad. Forh., xxix, No. 6, p. 93, 1872.
Stål, Enum. Hemip., iii, p. 111, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 95, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 25, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: Fla., Texas. (West Indies.)

TRIBE *GORPINI* (Reut.)

Reuter, Ann. Soc. Ent. Belg., liii, p. 423, 1909, Div. *Gorparia*.

Genus **Carthasis** Champ.
Haplotype *rufonotatus* Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 305, 1900.
Reuter, Mém. Soc. Ent. Belg., xv, p. 97, 1908.
Orthometrops Uhler, Proc. Ent. Soc. Wash., iv, p. 508, 1901 (type *decorata*).

835. **Carthasis decoratus** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., iv, p. 509, 1901, *Orthometrops*.
contrarius Reuter, Mém. Soc. Ent. Belg., xv, p. 97, 1908.
Localities: N. Y., N. J., Pa., Md.

SUPERFAMILY *CIMICOIDEAE* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 19, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Miridae Kirkaldy, Fauna Hawai., iii, p. 125, 1902.

PHALANX *CIMICIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 70, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Acanthiidae Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871 (Family).
Cimicidae, Stål, Enum. Hemip., iii, p. 101, 1873 (Family).
Anthocoridae Reuter, Monog. Anthroc., p. 3, 1884.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 237, 1896 (as Family).

Family CIMICIDAE (Latr.)

Latreille, Hist. Nat. Crust. Ins., xii, p. 235, 1804, *Cimicides* (part).
Leach, Brewster's Edinbg. Encyc., ix, p. 122, 1815, *Cimicides*, I, *Cimicida*.
Laporte, Essai Classif. Syst. Hémip., p. 51, 1832, *Cimicites* (part).
Spinola, Essai sur les Hémip., p. 170, 1837, *Cimicites*.
Westwood, Intr. Mod. Classif. Ins., ii, p. 474, Synop., p. 120, 1840, *Cimicidae*.
Spinola, Tavola Sinot., pp. 38, 39, 1850, Subfam. *Cimicoideae*.
Fieber, Genera Hydroc., p. 9, 1851, Family *Cimicidea*.
Stål, Enum. Hemip., iii, p. 103, 1873, Subfam. *Cimicina*.
Reuter, Monog. Anthroc., p. 3, 1884, *Cimicidae*.
Uhler, Stand. Nat. Hist., ii, p. 285, 1884.
Puton, Cat. Hémip. Palae., edn. 3, p. 42, 1886, Tribe *Cimicini*.
Provancher, Pet. Faune Ent. Can., iii, p. 169, 1887.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 235, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.
Distant, Fauna Br. Ind., Rhyn., ii, p. 410, 1904.
Oshanin, Verz. Palae. Hemip., i, p. 609, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 2, 71, 1910.
Banks, Cat. Neare. Hemip., p. 25, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 17, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 53, 1912.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.
Reuter, Zeit. Wissens., Insek., ix, p. 251, 1913.
Acanthilles Latreille, Genera Crust. Ins., iii, p. 135, 1807 (part).
Lecticoles Amyot and Serville, Hémip., pp. xli, 309, 1843 (as tribe).
Acanthiidae Costa, Cimic. Neap., Cent., iii, p. 67, 1852.
Dohrn, Cat. Hemip., p. 44, 1859.
Fieber, Europ. Hemip., p. 24, 1860, *Acanthiadae*.
Stål, Hemip. Afr., iii, p. 24, 1865.
Cacodmidae Kirkaldy, Bul. Liverp. Mus., ii, p. 45, 1899.
Kirkaldy, Fauna Hawai., iii, p. 129, 1902, *Cacodminae*.
Clinocoridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.
Bueno, Ent. News, xviii, p. 433, 1907.
Kirkaldy, Can. Ent., xl, p. 361, 1908.
Reuter, Ent. Mo. Mag., xix, p. 27, 1908, *Clinocorina*.

Subfamily CIMICINAE Van D.

Van Duzee, Check List Hemip., p. 33, 1916.
Cacodminae Jordan and Rothschilds, Novit. Zool., xix, p. 352, 1912.
Reuter, Zeit. f. Wissens. Insek., ix, p. 254, 1913.

Genus **Cimex** Linn.

Logotype *lectularius* Linn.

Linnaeus, Syst. Nat., edn. 10, i, p. 441, 1758 (Sec. "A," *Apteri*).
Geoffroy, Hist. Abreg. Ins., i, p. 430, 1762 (Fam. 1, *Apterus*).
Scopoli, Ent. Carn., p. 120, 1763 (Sec. 2, *Cucullati*).
Brunnich, Entomologia, p. 82, 1764 (*lectularius* only species).
Goeze, Ent. Beytr., ii, p. 177, 1778 (Sec. 1, for *lectularius*, full bibliography).
Fourcroy, Ent. Paris., p. 194, 1785 (Family I, *lectularius* first species).
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2123, 1788.
Thunberg, Genera Ins., edn. 2, p. 33, 1791 (no species mentioned).
Olivier, Encyc. Meth., iv, p. 25, 1789.
Lamarck, Syst. Anim. s. Vert., p. 293, 1801 (names *lectularius* as type).
Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (*lectularius* only sp.).
Latreille, Hist. Nat. Crust. Ins., xii, p. 254, 1804.
Latreille, Genera Crust. Ins., iii, p. 136, 1807.
Latreille, Consid. Génl., pp. 257, 433, 1810 (names *lectularius* type).
Leach, Brewster's Edinbg. Encyc., ix, p. 122, 1915 (for *lectularius*).
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 201, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 51, 1832 (names *lectularius* type).
Hahn, Wanz. Ins., iii, p. 17, 1835.
Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 61, 97, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 330, 1835.
Spinola, Essai sur les Hémip., p. 170, 1837.
Blanchard, Hist. des Ins., Hémip., p. 109, 1840. [*larius* type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 120, 1840 (names *lectu-*
Guerin, Icon. Règne Animal., p. 350, (*lectularius* only species).
Spinola, Tavola Sinot., p. 39, 1850.
Stål, Enum. Hemip., iii, pp. 103, 104, 1873.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 235, 1896.
Blanford, Nature, lxix, p. 200, 1903; p. 464, 1904.
Distant, Fauna Br. Ind., Rhyn., ii, p. 410, 1904.
Horvath, Ann. Mus. Natl. Hung., x, p. 257, 258, 1912.
Reuter, Zeit. Wissens. Insekt., ix, p. 305, 1913.
Van Duzee, Can. Ent., xlvi, p. 385, 1914.

Acanthia Fabricius, Syst. Ent., p. 693, 1775 (*lectularius* first species).
Fabricius, Ent. Syst., iv, p. 67, No. 1, 1794.
Walckenaer, Faune Paris., ii, p. 336, 1802.
Fabricius, Syst. Rhyng., p. 112, 1803 (indicates *lectularius* as type).
Fallén, Monog. Cimic. Suec., p. 27, 1807.
Wolff, Icon. Cimic., v, p. vii, 1811.
Fallén, Hemip. Suec., Cimic., p. 140, 1829.
Burmeister, Handb. d. Ent., ii, p. 252, 1835.
Amyot and Serville, Hémip., p. 310, 1843.
Flor, Rhyn. Livl., i, p. 671, 1860.
Fieber, Europ. Hemip., pp. 37, 135, 1861.
Stål, Hemip. Afr., ii, p. 24, 1865.
Douglas, Ent. Mo. Mag., xix, p. 202, 1883.

Clinocoris Fallén, Hemip. Suec., Cimic., p. 141, 1829 (suggested as a
Kirkaldy, Nature, lxix, p. 464, 1904. [better name).
Kirkaldy, Entomologist, xxxviii, p. 77, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.
Reuter, Ent. Mo. Mag., xix, p. 27, 1908.

Klinophilos Kirkaldy, Entomologist, xxxii, p. 219, 1899 (type *lectularius*).
Kirkaldy, Fauna Hawai., iii, p. 129, 1902.

836. **Cimex lectularius** Linn.

Linnaeus, Syst. Nat., edn. 10, p. 441, 1758.
Sulzer, Kennz. d. Ins., p. 102, Cimex No. 1, pl. 11, fig. 69, 1761 (no specific
Geoffroy, Hist. Abreg. Ins., i, p. 434, No. 1, 1762 (no specific name). [name).
Scopoli, Ent. Carn., p. 121, 1763.
Brunnich, Entomologia, p. 82, 1764.
De Geer, Mémoires, iii, p. 296, pl. 17, figs. 10–15, 1773.
Fabricius, Syst. Ent., p. 693, 1775, *Acanthia.*
Goeze, Ent. Beytr., ii, p. 180, 1778.
Schrank, Enum. Ins. Austr., p. 262, 1781.
Retzius, Gen. Spec. Ins., p. 88, 1783.
Fourcroy, Ent. Paris., p. 195, 1785.
Fabricius, Ent. Syst., iv, p. 67, 1794, *Acanthia.*
Lamarck, Syst. Anim. s. Vert., p. 293, 1801.
Schrank, Fauna Boica, ii, p. 62, 1801, *Acanthia.*
Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (mentioned as example).
Walckenaer, Faune Paris., ii, p. 337, 1802, *Acanthia.*
Fabricius, Syst. Rhyng., p. 112, 1803, *Acanthia.*
Latreille, Hist. Nat. Crust. Ins., xlii, p. 255, 1804.
Wolff, Icon. Cimic., iv, p. 127, fig. 121, 1804, *Acanthia.*
Latreille, Genera Crust. Ins., iii, p. 137, 1807.
Fallén, Monog. Cimic. Suec., p. 27, 1807, *Acanthia.*
Zetterstedt, Fauna Lapp., p. 485, 1828, *Acanthia.*
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 201, 1829.
Fallén, Hemip. Suec., Cimic., p. 141, 1829, *Acanthia.*
Hahn, Wanz. Ins., iii, p. 17, fig. 242, 1835.
Burmeister, Handb. d. Ent., ii, p. 253, 1835, *Acanthia.*
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 165, 1836.
Spinola, Essai sur les Hémip., p. 170, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 110, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, p. 475, 1840.
Zetterstedt, Ins. Lapp., column 271, 1840, *Acanthia.*
Amyot and Serville, Hémip., p. 313, 1843, *Acanthia.*
Flor, Rhyn. Livl., i, p. 672, 1860, *Acanthia.*
Fieber, Europ. Hemip., p. 135, 1861, *Acanthia.*
Douglas and Scott, Brit. Hemip., p. 510, pl. 17, fig. 7, 1865, *Acanthia.*
Walker, Cat. Heter., vii, p. 43, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 427, 1877, *Acanthia.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1329, *Acanthia.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878, *Acanthia.*
Berg, Hemip. Argent., p. 133, 1879.
Provancher, Pet. Faune Ent. Can., iii, p. 170, 1887.
Reuter, Rev. Synon., p. 319, No. 300, 1888.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894, *Acanthia.*
Marlatt, U. S. Dept. Agr., Div. Ent., Bul. N. S., iv, p. 32, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.
Kirkaldy, Fauna Hawai., iii, p. 129, 1902, *Klinophilos.*
Girault, Psyche, xii, p. 61, 1905, *Clinocoris* (life history).
Bueno and Brimley, Ent. News, xviii, p. 433, 1907, *Clinocoris.*

Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1900, *Clinocoris.*
Horvath, Ann. Mus. Natl. Hung., viii, p. 362, 1910, *Clinocoris.*
Horvath, Ann. Mus. Natl. Hung., x, p. 258, 1912.
Reuter, Zeit. f. Wissens. Insekt., ix, p. 325, 1913 (full account).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914 (noticed).
Parshley, Psyche, xxi, p. 143, 1914, *Clinocoris.* [linnaeau).
domesticus Moufflet, Ins. Minim, Anim. Theatrum, p. 629, 1634, pre-
Localities: All states.

837. **Cimex pilosellus** (Horv.)

Horvath, Ent. Mo. Mag., xxi, p. 12, 1910, *Clinocoris.*
Horvath, Ann. Mus. Natl. Hung., x, p. 259, 1912.
†*pipistrelli* Chittenden, U. S. Dept. Agr., Div. Ent., Bul. N. S. xviii, p. 97,
Zimmer, Ent. News, xxv, p. 418, 1914. [1898.
Localities: N. Y., N. C., Neb., Colo., Ariz., Calif., Br. Col.

Genus **Oeciacus** Stål
Orthotype *hirundinis* (Jen.)

Stål, Enum. Hemip., iii, p. 104, 1873.
Horvath, Ann. Mus. Natl. Hung., x, pp. 257, 260, 1912.
Reuter, Zeit. f. Wissens. Insekt., ix, pp. 254, 303, 1913.

838. **Oeciacus vicarius** Horv.

Horvath, Ann. Mus. Natl. Hung., x, p. 261, 1912.
†*hirundinis* (Gillette and Baker), Hemip. Colo., p. 56, 1893, *Acanthia.*
Parshley, Psyche, xxi, p. 143, 1914, *Clinocoris.*
Localities: Me., N. H., N. Y., Ia., Colo., Calif. (Mexico.)

Subfamily HAEMATOSIPHONINAE J. & R.

Jordan and Rothschild, Novit. Zool., xix, p. 352, 1912.
Reuter, Zeit. f. Wissens. Insekt., ix, p. 362, 1913.

Genus **Haematosiphon** Champ.
Haplotype *inodora* (Duges)

Champion, Biol. Centr. Am., Heter., ii, p. 337, 1900.
Horvath, Ann. Mus. Natl. Hung., x, pp. 257, 261, 1912.

839. **Haematosiphon inodorus** (Duges)

Duges, La Naturaleza, Ser. 2, ii, p. 169, pl. 8, figs. 1–7, 1892, *Acanthia.*
Townsend, Proc. Ent. Soc. Wash., iii, p. 40, 1894, *Acanthia.*
Champion, Biol. Centr. Am., Heter., ii, p. 337, pl. 20, fig. 1, 1900.
Horvath, Ann. Mus. Natl. Hung., x, p. 262, 1912.
Localities: N. Mex., Texas. (Mexico.)

Family **ANTHOCORIDAE** (Am. & Serv.)

Amyot and Serville, Hémip., pp. xxxvii, 262, 1843, *Anthocorides.*
Fieber, Genera Hydroc., p. 9, 1851, *Anthocoridea.*
Dallas, List of Hemip., ii, p. 587, 1852, *Anthocoridae.*
Costa, Cimic. Neap. Cent., iii, p. 69, 1852, Subfam. *Anthocorini.*
Dohrn, Cat. Hemip., p. 36, 1859.
Flor, Rhyn. Livl., i, p. 638, 1860, *Anthocoridea.*

Fieber, Europ. Hemip., pp. 25, 37, 135, 1861.
Stål, Hemip. Afr., iii, p. 23, 1865, *Anthocorida.*
Douglas and Scott, Brit. Hemip., pp. 36, 490, 1865.
Reuter, Of. Vet. Akad. Forh., xxxviii, p. 557, 1871, *Anthocorina.*
Stål, Enum. Hemip., iii, p. 101, 1873, *Anthocorina.*
Reuter, Monog. Anthoc., p. 3, 1884, *Anthocorina.*
Uhler, Check List, p. 21, 1886, *Anthocorina.*
Puton, Cat. Hémip. Palae., edn. 3, p. 43, 1886, *Anthocorini* (tribe).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 237, 1896 (as subfamily).
Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900, *Anthocorinae.*
Kirkaldy, Fauna Hawai., iii, p. 125, 1902, *Anthocorinae.*
Kirkaldy, Can. Ent., xl, p. 361, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 613, 1909.
Banks, Cat. Neare. Hemip., p. 23, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 18, 1911.
Oshanin, Kat. Palae. Hemip., p. 56, 1912.

Subfamily **LYCTOCORINAE** (Reut.)

Reuter, Monog. Anthoc., p. 4, 1884, Div. *Lyctocoraria.*
Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900, Div. *Lyctocoraria.*
Oshanin, Verz. Palae. Hemip., i, p. 613, 1909, Div. *Lyctocoraria.*
Oshanin, Kat. Palae. Hemip., p. 58, 1912, Tribe *Lyctocoraria.*

Genus **Lyctocoris** Hahn

Logotype *domesticus* Hahn = *campestris* (Fabr.)

Hahn, Wanz. Ins., iii, p. 19, 1835.
Fieber, Wien. Ent. Monat., iv, p. 264, 1860.
Flor, Rhyn. Livl., i, p. 665, 1860 (subgen. of *Xylocoris*).
Fieber, Europ. Hemip., pp. 38, 138, 1861.
Douglas and Scott, Brit. Hemip., p. 498, 1865.
Reuter, Of. Vet. Akad. Forh., xxvii, p. 409, 1871.
Reuter, Monog. Anthoc., pp. 5, 6, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 306, 1900. [type *canadensis* Prov.)
Tetraphleps Provancher, Pet. Faune Ent. Can., iii, p. 90, 1886. (Haplo-

Subgenus **Lyctocoris** Hahn

Reuter, Monog. Anthoc., pp. 6, 7, 1884.

840. **Lyctocoris campestris** (Fabr.)

Fabricius, Ent. Syst., iv, p. 75, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 116, 1803, *Salda.*
Stål, Hemip. Fabr., i, p. 90, 1868, *Anthocoris.*
Reuter, Of. Vet. Akad. Forh., xxviii, p. 409, 1871.
Reuter, Monog. Anthoc., p. 7, 1884.
Reuter, Rev. Synon., p. 312, No. 295, 1888.
Gillette and Baker, Hemip. Colo., p. 55, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 307, 1900.
pallidus (Rossi), Mant. Ins., ii, p. 55, 1794, *Cimex.*
arvicola (Latreille), Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygaeus.*
pallens (Fallén), Hemip. Suec., Cimic., p. 103, 1829, *Phytocoris.*

domesticus (Schilling), Isis, p. 738, 1834, *Cimex*.
Fieber, Europ. Hemip., p. 139, 1861.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871; xix, p. 416, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
‖*domesticus* Hahn, Wanz. Ins., iii, p. 20, fig. 243, 1835 (as new).
Herrich-Schaeffer, Wanz. Ins., ix, p. 228, 1853, *Anthocoris*.
Flor, Rhyn. Livl., i, p. 665, 1860.
bicuspis (Herrich-Schaeffer), Nomen. Ent., i, p. 60, 1835, *Anthocoris*.
Herrich-Schaeffer, Wanz. Ins., Verz., p. 12, 1853, *Anthocoris*.
dimidiata (Spinola), Essai sur les Hémip., p. 236, 1837 (1840), *Xylocoris*.
parisiensis (Amyot and Serville), Hémip., p. 264, 1843, *Xylocoris*.
Dallas, List of Hemip., ii, p. 589, 1852, *Xylocoris*.
americanus (Dallas), List of Hemip., ii, p. 589, 1852, *Xylocoris*.
Reuter, Monog. Anthoc., p. 166, 1884, *Xylocoris*.
distinguendus Flor, Rhyn. Livl., i, p. 666, 1860 (as variety).
pictus Fieber, Europ. Hemip., p. 138, 1861 (as variety).
currax (Garbiglietti), Bul. Soc. Ent. Ital., i, p. 123, 1869, *Cardiastethus*.
fitchii Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871.
Parshley, Psyche, xxi, p. 143, 1914.
Localities: Quebec, Ont., Me., N. Y., Pa., N. C., Ill., Wis., Ala., Texas, Colo.

841. **Lyctocoris canadensis** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 90, 1886, *Tetraphleps*.
Van Duzee, Can. Ent., xliv, p. 320, 1912.
Localities: Quebec, Ont.

Subgenus **Dolichomerium** Kirk.
Logotype *elongatus* Reut.

Kirkaldy, Entomologist, xxxiii, p. 242, 1900 (n.n. for *Dolichomerus* Reut.).
‖*Dolichomerus* Reuter, Of. Vet. Akad. Forh., xxviii, p. 557, 1871.
Reuter, Monog. Anthoc., p. 10, 1884.

842. **Lyctocoris elongatus** (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 558, 1871, *Dolichomerus*.
Stål, Enum. Hemip., iii, p. 101, 1873, *Dolichomerus* (record only).
Reuter, Monog. Anthoc., p. 11, 1884, *Dolichomerus*.
Localities: S. C., Idaho.

843. **Lyctocoris stålii** (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 558, 1871, *Dolichomerus*.
Stål, Enum. Hemip., iii, p. 101, 1872, *Dolichomerus* (record only).
Reuter, Monog. Anthoc., p. 10, 1884, *Dolichomerus*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894, *Dolichomerus*.
reuteri B. White, Ent. Mo. Mag., xvi, p. 146, 1879, *Dolichomerus*.
Localities: N. Y., N. C., S. C., Fla., Calif., Vanc. Isd.

Genus **Lasiochilus** Reut.
Haplotype *pallidulus* Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 562, 1871.
Reuter, Monog. Anthoc., p. 13, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 307, 1900.

Subgenus **Lasiochilus** Reut.

Reuter, Monog. Anthoc., p. 15, 1884.

844. **Lasiochilus pallidulus** Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 562, 1871.
Stål, Enum. Hemip., iii, p. 102, 1873 (record only).
Reuter, Monog. Anthoc., p. 17, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 198.
Champion, Biol. Centr. Am., Heter., ii, p. 309, 1900.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Localities: S. C., Fla., Texas. (West Indies, Mexico.)

Subgenus **Dilasia** Reut.
Haplotype *fuscula* Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 563, 1871.
Reuter, Monog. Anthoc., p. 20, 1884.

845. **Lasiochilus fusculus** Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 563, 1871.
Stål, Enum. Hemip., iii, p. 101, 1873.
Reuter, Monog. Anthoc., p. 22, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201, *Lasiochilus*.
Localities: N. Y., S. C., Texas.

Genus **Xylocoris** Duf.
Haplotype *rufipennis* Duf. = *cursitans* (Fall.)

Dufour, Ann. Sci. Nat. Paris, xxii, p. 423, 1831 (*rufipennis* only species).
Dufour, Ann. Soc. Ent. Fr., Ser. 1, ii, p. 106, 1833 (adds *ater* n.sp.).
Burmeister, Handb. d. Ent., ii, p. 289, 1835.
Spinola, Essai sur les Hémip., p. 235, 1837 (1840).
Amyot and Serville, Hémip., p. 263, 1843.
Herrich-Schaeffer, Wanz. Ins., ix, p. 170, 1853.
Stål, Hemip. Afr., iii, p. 23, 1865.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 119, 1906.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 25, 1912.
Piezostethus Fieber, Wien. Ent. Monat., iv, p. 265, 1860.
Fieber, Europ. Hemip., pp. 38, 139, 1861.
Douglas and Scott, Brit. Hemip., p. 500, 1865.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 410, 1871.
Reuter, Monog. Anthoc., p. 29, 1884.
Uhler, Check List, p. 21, 1886.
Champion, Biol. Centr. Am., Heter., ii, p. 315, 1900.
Oshanin, Verz. Palae. Hemip., i, p. 615, 1909.
Banks, Cat. Neare. Hemip., p. 24, 1910.
‡*Piestostethus* Marshall, Ent. Mo. Mag., iv, p. 281, 1868.

Subgenus **Xylocoris** Duf.

Piezostethus Reuter, Monog. Anthoc., pp. 31, 36, 1884.

846. **Xylocoris galactinus** (Fieb.)

Fieber, Weit. Beitr., i, p. 107, 1836, *Anthocoris*.
Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus*.

Douglas and Scott, Brit. Hemip., p. 500, pl. 17, fig. 2, 1865, *Piezostethus.*
Reuter, Of. Vet. Akad. Forh., xxviii, p. 411, 1871, *Piezostethus.*
Reuter, Monog. Anthoc., p. 36, 1884, *Piezostethus.*
Champion, Biol. Centr. Am., Heter., ii, p. 315, 1900, *Piezostethus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Piezostethus.*
albipennis Herrich-Schaeffer, Wanz. Ins., ix, p. 171, fig. 971, 1853 (*ater* Baerensprung, Berl. Ent. Zeit., ii, p. 194, 1858. [by error on the plate).
Flor, Rhyn. Livl., i, p. 669, 1860.
Localities: N. Y., Ill., Ga., Fla. (Centr. Am., Europe.)

847. **Xylocoris sordidus** (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 560, 1871, *Piezostethus.*
Stål, Enum. Hemip., iii, p. 101, 1873, *Piezostethus.*
Reuter, Monog. Anthoc., p. 37, 1884, *Piezostethus.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201, *Piezostethus.*
Champion, Biol. Centr. Am., Heter., ii, p. 316, 1900, *Piezostethus.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Piezostethus.*
Smith, Cat. Ins. N. J., edn. 3, p. 158, 1910, *Piezostethus.*
Localities: N. Y., Pa., Texas, N. Mex.

a. var. **binotatus** (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 560, 1871, *Piezostethus* (as distinct
Reuter, Monog. Anthoc., p. 37, 1884, *Piezostethus* (as variety). [species).
Locality: S. C.

848. **Xylocoris flaccidus** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914, *Piezostethus.*
Locality: Calif.

849. **Xylocoris vicarius** (Reut.)

Reuter, Monog. Anthoc., p. 45, 1884, *Piezostethus.*
Locality: "Am. Sept."

850. **Xylocoris californicus** (Reut.)

Reuter, Monog. Anthoc., p. 46, 1884, *Piezostethus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 380, 1893, *Piezostethus.*
Uhler, Proc. U. S. Natl. Mus., xvii, p. 363, 1904, *Piezostethus.*
Localities: Utah, N. Mex., Calif.

851. **Xylocoris cursitans** (Fall.)

Fallén, Monog. Cimic. Suec., p. 74, 1807, *Lygaeus.*
Fallén, Hemip. Suec. Cimic., p. 69, 1829, *Anthocoris.*
Sahlberg, Monog. Geoc. Fenn., p. 80, 1848.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 411, 1871, *Piezostethus.*
Reuter, Monog. Anthoc., p. 43, 1884, *Piezostethus.*
rufipennis Dufour, Ann. Soc. Ent. Fr., ii, p. 106, 1831.
Flor, Rhyn. Livl., i, p. 668, 1860.
Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus.*
Douglas and Scott, Brit. Hemip., p. 501, 1865, *Piezostethus.*
corticalis (Hahn), Wanz. Ins., iii, p. 21, fig. 244, 1835, *Lyctocoris.*
bicolor Scholz, Prod. Rhyn. Schles., p. 116, 1846.
Fieber, Europ. Hemip., p. 139, 1861, *Piezostethus.*
latior Mulsant and Rey, Ann. Soc. Linn. Lyons, p. 160, 1852.
Localities: N. Y., N. J. (Palaearctic).

Genus **Asthenidea** Reut.
Logotype *temnostethoides* Reut.

Reuter, Monog. Anthoc., p. 48, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 317, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906 (type fixation).

852. **Asthenidea temnostethoides** Reut.

Reuter, Monog. Anthoc., p. 51, 1884.
Locality: Ill.

Subfamily ANTHOCORINAE (Reut.)

Reuter, Monog. Anthoc., pp. 4, 55, 1884, Div. *Anthocoraria.*
Champion, Biol. Centr. Am., Heter., ii, p. 319, 1900, Div. *Anthocoraria.*
Oshanin, Verz. Palae. Hemip., i, p. 613, 1909, Div. *Anthocoraria.*
Oshanin, Kat. Palae. Hemip., p. 56, 1912, Tribe *Anthocoraria.*

Genus **Anthocoris** Fall.
Type *nemorum* Linn. = *sylvestris* (Linn.)

Fallén, Spec. Nova Hemip. Disp. Meth., p. 9, 1814.
Fallén, Hemip. Suec., Cimic., p. 65, 1829.
Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 60, 1835.
Burmeister, Handb. d. Ent., ii, p. 288, 1835.
Spinola, Essai sur les Hémip., p. 237, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 133, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *nemorum*
Amyot and Serville, Hémip., p. 262, 1843. [type).
Spinola, Tavola Sinot., p. 37, 1850.
Dallas, List of Hemip., ii, p. 588, 1852.
Herrich-Schaeffer, Wanz. Ins., ix, p. 218, 1853.
Fieber, Wien. Ent. Monat., iv, p. 263, 1860.
Flor, Rhyn. Livl., i, p. 643, 1860.
Fieber, Europ. Hemip., pp. 38, 136, 1861.
Douglas and Scott, Brit. Hemip., p. 494, 1865.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 419, 1871.
Reuter, Monog. Anthoc., pp. 56, 66, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 89, 1886.
Edwards, Ent. Mo. Mag., xxvi, p. 236, 1890 (British species only).
Champion, Biol. Centr. Am., Heter., ii, p. 323, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906.
Distant, Fauna Br. Ind., Rhyn., v, p. 298, 1910 (cites *nemorum* as type).
[*Hylophila* Kirby MS] Stephens, Syst. Cat. Brit. Ins., p. 344, 1829.
Rhynarius Hahn, Wanz. Ins., i, p. 104, 1831 (type *sylvestris* Linn.). [Lap.).
Leptomeris Laporte, Essai Classif. Syst. Hémip., p. 10, 1832 (type *picta*
Phyllocoris Costa, Atti R. Inst. Incorr. Sc. Nap., vii, p. 264, 1847 (type
Reuter, Monog. Anthoc., p. 166, 1884. [*nemorum* Linn.).

853. **Anthocoris nigripes** Reut.

Reuter, Monog. Anthoc., p. 69, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 324, 1900.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.
Localities: N. Mex. (Mexico.)

854. **Anthocoris fulvipennis** Reut.

Reuter, Monog. Anthoc., p. 69, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 324, 1900.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 363, 1904.
Localities: N. Mex., Calif. (Mexico.)

855. **Anthocoris albiger** Reut.

Reuter, Monog. Anthoc., p. 70, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 323, 1900.
Localities: N. Mex. (Mexico.)

856. **Anthocoris bakeri** Popp.

Poppius, Ann. Soc. Ent. Belg., lvii, p. 14, 1913.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

a. var. **ornatus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 14, 1914.
Locality: Calif.

857. **Anthocoris whitei** Reut.

Reuter, Monog. Anthoc., p. 74, 1884.
Locality: Calif.

859. **Anthocoris antevolens** White

White (B.), Ent. Mo. Mag., xvi, p. 146, 1879.
Reuter, Monog. Anthoc., p. 77, 1884.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
Gillette and Baker, Hemip. Colo., p. 55, 1895.
Localities: Colo., Mont., Calif.

860. **Anthocoris borealis** Dall.

Dallas, List of Hemip., ii, p. 588, 1852.
Reuter, Monog. Anthoc., p. 165, 1884 (copies description).
†*musculus* Provancher, Pet. Faune Ent. Can., iii, p. 89, 1886.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
Localities: Quebec, Ont., N. H., N. Y.

861. **Anthocoris musculus** (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 802; Compl. Writ., i, p. [357, *Reduvius.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 321, 1876; iii, p. 427, 1877.
Reuter, Monog. Anthoc., p. 164, 1884.
Gillette and Baker, Hemip. Colo., p. 55, 1895.
Parshley, Psyche, xxi, p. 143, 1914.
Localities: Me., Colo.

862. **Anthocoris melanocerus** Reut.

Reuter, Monog. Anthoc., p. 81, 1884.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
Localities: Colo., Utah, Br. Col., Calif.

Genus **Triphleps** Fieb.
Type *niger* Wolff

Fieber, Wien. Ent. Monat., iv, p. 266, 1860.
Fieber, Europ. Hemip., pp. 39, 140, 1861.

Douglas and Scott, Brit. Hemip., p. 502, 1865.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 414, 1871.
Reuter, Monog. Anthoc., pp. 57, 89, 191, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 91, 1886.
Champion, Biol. Centr. Am., Heter., ii, p. 326, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 120, 1906.
Distant, Fauna Br. Ind., Rhyn., iii, p. 8, 1906 (names *laevigatus* Fieb. type).

863. **Triphleps niger** (Wolff)

Wolff, Icon. Cimic., v, p. 167, fig. 161, 1811, *Salda.*
Fieber, Europ. Hemip., p. 140, 1861.
Douglas and Scott, Brit. Hemip., p. 502, 1865.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 415, 1871.
Reuter, Monog. Anthoc., p. 92, 1884.
obscurus (Hahn), Wans. Ins., i, p. 110, fig. 59, 1831, *Rhynarius.*
compressicornis Sahlbg., Monog. Geoc., p. 77, 1848.
crassicornis Mulsant, Ann. Soc. Linn. Lyons, p. 161, 1857.
†*fruticum* Flor, Rhyn. Livl., i, p. 653, 1860 (part).
neglectus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 92, 1860.
ullrichi Fieber, Europ. Hemip., p. 140, 1861 (variety).
Localities: Calif. (Palaearctic).

864. **Triphleps insidiosus** (Say)

Say, Heter. N. Harm., p. 32, 1832; Fitch reprint, p. 801; Compl. Writ., i, p. [357, *Reduvius.*
Stål, Enum. Hemip., iii, p. 102, 1873.
Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 106, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 320, 1876; iii, p. 427, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 417, 1878.
Reuter, Monog. Anthoc., p. 97, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 91, 1886.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
Gillette and Baker, Hemip. Colo., p. 55, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 327, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 26, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 158, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Malloch, Ent. News, xxvii, p. 200, 1916 (note on biting habit).
pscudo-chinche (Fitch), 2d Rept., Trans. N. Y. St. Agr. Soc., xv, p. 527, [1856 (reprinted in 1st and 2d Repts., p. 295), *Anthocoris.*
lepidus (Stål), Rio Jan. Hemip., i, p. 43, 1860, *Anthocoris.*
Stål, Enum. Hemip., iii, p. 102, 1873.
rugicollis Reuter, Of. Vet. Akad. Forh., xxviii, p. 565, 1871.
†*perpunctatus* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.

a. var **latulus** Reut.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 565, 1871.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Fla., Mich., Ill., Mo., Neb., Kan., Colo., Texas. (Neotropical.)

865. **Triphleps tristicolor** White.

White, Ent. Mo. Mag., xvi, p. 145, 1879.
Reuter, Monog. Anthoc., p. 98, 1884.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 278, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 327, 1900.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
Essig, Inj. Ben. Ins. Calif., edn. 2, p. 209, 1915.
Localities: Me., N. Y., Colo., Utah, N. Mex., Ariz., Calif., Idaho.

Subfamily **DUFOURIELLINAE** Van D.

Van Duzee, Check List Hemip., p. 35, 1916 (n.n. for *Xylocoraria* Reut.).
Xylocoraria Reuter, Monog. Anthoc., pp. 4, 113, 1884 (as division).
Champion, Biol. Centr. Am., Heter., ii, p. 330, 1900 (as division).
Oshanin, Verz. Palae. Hemip., i, p. 633, 1909 (as division).

Genus **Brachysteles** Muls. & Rey
Type *pilicornis* Muls. = *parvicornis* Costa

Mulsant and Rey, Ann. Soc. Linn. Lyons, iii, p. 104, 1852.
Fieber, Wien. Ent. Monat., iv, p. 266, 1860.
Fieber, Europ. Hemip., pp. 39, 141, 1861.
Douglas and Scott, Brit. Hemip., p. 505, 1865.
Reuter, Monog. Anthoc., pp. 113, 115, 1892, 1884.

866. **Brachysteles pallidus** Reut.

Reuter, Monog. Anthoc., p. 118, 1884.
Uhler, Check List, p. 21, 1886.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.
Localities: "Southern States." (West Indies.)

Genus **Cardiastethus** Fieb.
Type *luridellus* Fieb.

Fieber, Wien. Ent. Monat., iv, p. 266, 1860.
Fieber, Europ. Hemip., pp. 39, 141, 1860.
Douglas and Scott, Brit. Hemip., p. 506, 1865.
Reuter, Monog. Anthoc., pp. 114, 130, 192, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 330, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 121, 1906 (type fixation only).
Dasypterus Reuter, Of. Vet. Akad. Forh., xxviii, p. 564, 1871 (type [*limbatellus* Stål).
Banks, Cat. Neare. Hemip., p. 23, 1910.
Amphiareus Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 220, 1904 (type [*fulvescens* Walk.).
Lippomanus Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 221, 1904 (type [*hirsutus* Dist.).

Subgenus **Cardiastethus** Fieb.

Reuter, Monog. Anthoc., pp. 113, 135, 1884.

867. **Cardiastethus assimilis** (Reut.)

Reuter, Of. Vet. Akad. Forh., xxviii, p. 564, 1871, *Dasypterus*.
Reuter, Monog. Anthoc., p. 139, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 201.
Champion, Biol. Centr. Am., Heter., ii, p. 332, 1900.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 502, 1914.
Localities: S. C., Fla., Texas. (Central America.)

868. **Cardiastethus pergandii** Reut.

Reuter, Monog. Anthoc., p. 141, 1884 (spelled *pergaudei* by error).
Locality: D. C.

869. **Cardiastethus luridellus** Fieb.

Fieber, Wien. Ent. Monat., iv, p. 271, 1860.
Stål, Enum. Hemip., iii, p. 103, 1873.
Reuter, Monog. Anthoc., p. 142, 1884.
Locality: Pa.

Genus **Solenonotus** Reut.
Haplotype *sulcifer* Stål

Reuter, Of. Vet. Akad. Forh., xxviii, p. 599, 1871.
Reuter, Monog. Anthoc., pp. 114, 149, 1884.
Stål, Enum. Hemip., iii, p. 101, 1873.
Champion, Biol. Centr. Am., Heter., ii, p. 334, 1900.

870. **Solenonotus angustatus** Popp.

Poppius, Ann. Soc. Ent. Belg., lvii, p. 13, 1913.
Locality: Calif.

Genus **Dufouriellus** Kirk.
Orthotype *ater* Duf.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 121, 1906 (n.n. for *Xylocoris* Westw.).
†*Xylocoris* Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 123, 1840
Fieber, Wien. Ent. Monat., iv, p. 267, 1860. [names *ater* Duf. type).
Fieber, Europ. Hemip., pp. 39, 142, 1861.
Douglas and Scott, Brit. Hemip., p. 507, 1865.
Reuter, Of. Vet. Akad. Forh., xxvii, p. 412, 1871.
Reuter, Monog. Anthoc., pp. 114, 150, 1884.

871. **Dufouriellus ater** (Duf.)

Dufour, Ann. Soc. Ent. Fr., Ser. 1, ii, p. 106, pl. 6, fig. 3, 1833, *Xylocoris*.
Burmeister, Handb. d. Ent., ii, p. 290, 1835, *Xylocoris*.
Blanchard, Hist. Nat. des Ins., Hémip., p. 234, 1840, *Anthocoris*.
Herrich-Schaeffer, Wanz. Ins., ix, p. 170, 1853, *Xylocoris*.
Baerensprung, Berl. Ent. Zeit., ii, p. 196, 1858.
Fieber, Europ. Hemip., i, p. 142, 1861.
Douglas and Scott, Brit. Hemip., p. 508, pl. 17, fig. 6, 1865.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 413, 1871.
Reuter, Monog. Anthoc., p. 151, 1884.
Oshanin, Verz. Palae. Hemip., i, p. 637, 1909.
tardus (Herrich-Schaeffer), Nomen. Ent., i, p. 60, 1835, *Anthocoris*.
elongatus (Fieber), Weit. Beit., i, p. 109, pl. 2, fig. 8, 1836, *Anthocoris*.
Localities: N. Y. (Palaearctic.)

Genus **Scoloposcelis** Fieb.
Type *crassipes* Flor = *pulchellus* Zett.

Fieber, Wien. Ent. Monat., vii, p. 61, 1864.
Reuter, Of. Vet. Akad. Forh., xxviii, p. 413, 1871.
Ferrari, Ann. Mus. Civ. Stor. Nat. Genova. xii, p. 90, 1878.
Reuter, Monog. Anthoc., pp. 114, 151, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 335, 1900.

Oshanin, Kat. Palae. Hemip., p. 59, 1912. [(type *contubernalis* Dist.).
Ostorodias Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 219, 1904
Sesellius Distant, Ann. Mag. Nat. Hist., Ser. 7, xiv, p. 221, 1904 (type [*parallelus* Mots.).

872. **Scoloposcelis flavicornis** Reut.

Reuter, Of. Vet. Akad. Forh., xxviii, p. 561, 1871.
Reuter, Monog. Anthoc., p. 154, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 335, pl. 19, fig. 32, 1900.
Localities: Pa., Fla., Texas. (Mexico.)

873. **Scoloposcelis discalis** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
Locality: Calif.

Family TERMATOPHYLIDAE (Reut.)

Reuter, Wien. Ent. Zeit., iii, p. 218, 1884, Subfam. *Termatophylina.*
Reuter, Monog. Anthoc., p. 167, 1884, Subfam. *Termatophylina,* [*phylidae.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 253, 1896, Subfam. *Termato-*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Termatophylinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 70, 1910, *Termatophylidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 2, 1912; No. 6,
Oshanin, Kat. Palae. Hemip., p. 59, 1912. [pp. 19, 48, 52, 1912.

Genus **Hesperophylum** Reut.
Haplotype *heidemanni* Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 16, 1912.

874. **Hesperophylum heidemanni** Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 1, p. 17, 1912.
Barber, Jl. N. Y. Ent. Soc., xxii, p. 170, 1914.
Localities: N. H., Ariz.

PHALANX *MIRIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
Reuter, Of. Finska Vet. Akad. Forh., Afd. A, No. 6, p. 48, 1912.
Van Duzee, Check List Hemip., p. 35, 1916.
Capsidae, Reuter, Hemip. Gymn. Eur., i, p. 13, 1878 (Family).
Distant, Biol. Centr. Am., Heter., i, p. 234, 1883.
Puton, Cat. Hémip. Palae., edn. 3, p. 45, 1886, *Capsides.*
Ashmead, Ent. Am., iv, p. 69, 1888.
Atkinson, Cat. Capsidae, p. 25, 1889.
Miridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (Family).
Kirkaldy, Can. Ent., xl, p. 361, 1908.
Capsiformes Oshanin, Kat. Palae. Hemip., p. 59, 1912.

Family MIRIDAE (Hahn)

Hahn, Wanz. Ins., i, p. 234, 1831, *Mirides.*
Brullé, Hist. Nat. des Ins., ix, p. 405, 1835, *Miriens.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 135, 1840, *Miriens.*

Kirkaldy, Entomologist, xxxii, p. 221, 1899.
Kirkaldy, Fauna Hawai., iii, p. 129, 1902, Subfam. *Mirinae.*
Bergroth, Wien. Ent. Zeit., xxii, p. 255, 1903.
Horvath, Ann. Mus. Natl. Hung., ii, p. 577, 1904.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Mirinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 69, 84, 1910 (Systematic).
Reuter, Of. Finska Vet. Soc. Forh., Afd. A, No. 6, pp. 48, 52, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent., Tech. Bul., i, p. 199, 1916. (Key.)
Van Duzee, Check List Hemip., p. 35, 1916.

Capsini Burmeister, Handb. d. Ent., ii, p. 263, 1835.
Herrich–Schaeffer, Wanz. Ins., iii, p. 35, 1836.
Spinola, Essai sur les Hémip., p. 182, 1837 (1840), *Capsoides.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 479; Synop., p. 121, 1840,
Spinola, Tavola Sinot., pp. 26, 43, 1850, *Capsites.* [*Capsidae.*
Herrich–Schaeffer, Wanz. Ins., ix, p. 163, 1853.
Flor, Rhyn. Livl., i, p. 404, 1860, *Capsina.*
Costa, Add. Cimic. Neap., p. 20, 1860, *Capsidea.*
Douglas and Scott, Brit. Hemip., pp. 27, 276, 1865, Sec. *Capsina.*
Stål, Hemip. Afr., iii, p. 17, 1865, *Capsida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 667, 1870, *Capsina.*
Thomson, Opusc. Ent., i, p. 410, 1871, *Capsina.*
Reuter, Rev. Crit. Caps., i, p. 65, 1875, Subfam. *Capsina.*
Reuter, Genera Cimic. Eur., p. 4, 1875, Subfam. *Capsina.*
Reuter, Hemip. Gymn. Eur., i, p. 15, 1878, Subfam. *Capsina.*
Distant, Biol. Centr. Am., Heter., i, p. 235, 1883, *Capsinae.*
Uhler, Check List, p. 17, 1886, *Capsidae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 45, 1886, Tribe *Capsini.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 412, 1904, *Capsidae.*
Reuter, Festsch. f. Palmen, i, 1905 (systematic).
Oshanin, Verz. Palae. Hemip., i, p. 645, 1909, *Capsidae.*
Banks, Cat. Nearc. Hemip., p. 28, 1910.
Oshanin, Kat. Palae. Hemip., p. 59, 1912, *Capsidae.*
Van Duzee, Can. Ent., xlvi, p. 386, 1914, *Capsidae.*

Bicellules Amyot and Serville, Hémip., pp. xxxviii, 275, 1843.
Dohrn, Cat. Hemip., p. 37, 1859, *Bicelluli.*

Phytoeoridae Fieber, Wien. Ent. Monats., ii, p. 289, 1858.
Fieber, Europ. Hemip., pp. 26, 61, 237, 1861.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 408, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876.
Uhler, Stand. Nat. Hist., ii, p. 286, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 92, 1886.

Subfamily MIRINAE (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 128, 155, 1910, *Mirina.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 201, 203, 1916.

Capsinae Amyot and Serville, Hémip., pp. xxxix, 278, 1843, *Capsides.*
Oshanin, Kat. Palae. Hemip., p. 59, 1912.

TRIBE *MIRINI* (A. & S.)

Amyot and Serville, Hémip., pp. xxxviii, 277, 1843 (groupe *Mirides*).
Dohrn, Cat. Hemip., p. 37, 1859, *Miridae.*

Douglas and Scott, Brit. Hemip., pp. 29, 282, 1865, Family *Miridae.*
Reuter, Genera Cimic. Eur., p. 5, 1875, Div. *Miraria.*
Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 1, 1875, Div. *Miraria.*
Berg, Hemip. Argent., p. 117, 1879, Subfam. *Myridina.*
Reuter, Hemip. Gymn. Eur., iii, p. 565, 1883, Div. *Miraria.*
Puton, Cat. Hemip. Palae., edn. 3, p. 45, 1886, Div. *Miraria.*
Uhler, Check List, p. 17, 1886, *Miraria.*
Provancher, Pet. Faune Ent. Can., iii, p. 95, 1886, *Mirides.*
Atkinson, Cat. Capsidae, p. 32, 1889, Div. *Miraria.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, §*Mininae.*
Reuter, Festsch. f. Palmen, i, pp. 21, 28, 1905, Div. *Miraria.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906, Tribe *Mirini.*
Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Mirini.*
Oshanin, Verz. Palae. Hemip., i, p. 761, 1909, Div. *Miraria.*
Reuter, Acta Soc. Sci. Fenn., xxxvii. No. 3, pp. 129, 130, 1910, Div. *Miraria.*
Banks, Cat. Nearc. Hemip., p. 40, 1910, *Mirini.*
Oshanin, Kat. Palae. Hemip., p. 68, 1912, Div. *Miraria.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.
Van Duzee, Check List Hemip., p. 35, 1916.

Genus **Collaria** Prov.
Haplotype *meilleurii* Prov.

Provancher, Nat. Can., iv, p. 79, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 101, 1886.
Uhler, Ent. Am., ii, p. 230, 1887.
Distant, Biol. Centr. Am., Heter., i, p. 417, 1893.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 64, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., li, No. 13, p. 11, 1909 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
Trachelomiris Reuter, Caps. Am. Bor., p. 61, 1876 (type *oculatus* Reut.).
Distant, Biol. Centr. Am., Heter., i, p. 238, 1883. [*coracina* Uhl.).
Nabidea Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 397, 1878 (Type

875. **Collaria meilleurii** Prov.

Provancher, Nat. Can., iv, p. 79, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 102, 1886.
Uhler, Ent. Am., ii, p. 230, 1887.
Van Duzee, Can. Ent., xix, p. 70, 1887, *Trachelomiris.*
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Harrington, Ottawa Nat., vi, p. 27, 1892, *Trachelomiris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Montgomery, Ent. News, xiii, p. 13, 1902.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
Moore, Can. Ent., xxxix, p. 163, 1907.
Van Duzee, Can. Ent., xl, p. 112, 1908.
Parshley, Psyche, xxi, p. 142, 1914.
coracina Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 398, 1878, *Nabidea.*
Localities: Ont., N. Y.

876. **Collaria oculata** (Reut.)

Reuter, Caps. Am. Bor., p. 61, 1876, *Trachelomiris.*
Van Duzee, Can. Ent., xix, p. 70, 1887, *Trachelomiris.*

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Trachelomiris*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Montgomery, Ent. News, xiii, p. 13, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Parshley, Psyche, xxi, p. 142, 1914.
Localities: Quebec, Ont., N. Y., N. J., Pa., Ga., Fla., Ia., Kans., Texas.

877. **Collaria explicata** Uhl.

Uhler, Ent. Am., ii, p. 230, 1887.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Fla. (West Indies, Mexico.)

878. **Collaria oleosa** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 238, pl. 24, fig. 2, 1883, *Trachelomiris*.
Distant, Biol. Centr. Am., Heter., i, p. 417, 1893.
Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 266.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.
Localities: Calif.(?). (Mexico.)

Genus **Miris** Fabr.
Orthotype *dolabratus* (Linn.)

Fabricius, Ent. Syst., iv, p. 183, 1794 (indicates *dolabratus* as type).
Latreille, Precis, p. 84, 1796.
Latreille, Hist. Nat. Crust. Ins., iii, p. 246, 1802; xii, p. 221, 1804.
Fabricius, Syst. Rhyng., p. 253, 1803.
Latreille, Genera Crust. Ins., iii, p. 124, 1807.
Fallén, Monog. Cimic. Suec., p. 106, 1807.
Latreille, Consid. Genl., pp. 255, 433, 1810 (names *striatus* pseudotype).
Latreille, *in* Cuvier, Régne Anim., edn. 2, v, p. 199, 1829.
Fallén, Hemip. Suec., Cimic., p. 127, 1829.
Hahn, Wanz. Ins., ii, p. 73, 1834, §*Myris*.
Burmeister, Handb. d. Ent., ii, p. 264, 1835.
Brullé, Hist. des Ins., ix, p. 409, 1835.
Herrich–Schaeffer, Wanz. Ins., iii, p. 35, 1836.
Spinola, Essai sur les Hémip., p. 186, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 135, 1840.
Westwood, Introd. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (cites *dolabratus* [as type).
Amyot and Serville, Hémip., p. 277, 1843.
Spinola, Tavola Sinot., p. 43, 1850.
Reuter, Rev. Synon., p. 243, 1888 (cites *dolabratus* as type).
Atkinson, Cat. Capsidae, p. 32, 1889.
Hüeber, Synop. deut. Bindw., i, pp. 33, 63, 1894.
Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 1, 1904 (note).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

†*Lopus* Herrich-Schaeffer, Wanz. Ins., iii, p. 35, 1836.
Kirschbaum, Rhyng. geg. v. Wiesbd., Caps., pp. 34, 105, 1855.
Leptopterna Fieber, Wien. Ent. Monat., ii, p. 302, 1858.
Fieber, Europ. Hemip., pp. 63, 244, 1861.
Thomson, Opusc. Ent., iv, p. 415, 1871.
Reuter, Genera Cimic. Eur., p. 9, 1875.
Reuter, Rev. Crit. Caps., ii, p. 13, 1875.
Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886.
Puton, Cat. Hemip. Palae., edn. 3, p. 46, 1886.
Uhler, Check List, p. 17, 1886.
Lopomorphus Douglas and Scott, Brit. Hemip., p. 293, 1865.

879. **Miris dolabratus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 449, 1758; edn. 12, i, p. 730, 1767, *Cimex.*
Fabricius, Syst. Ent., p. 726, 1775, *Cimex.*
Schrank, Enum. Ins. Austr., p. 285, 1781, *Cimex.*
Fabricius, Ent. Syst., iv, p. 183, 1794.
Schrank, Fauna Boic., ii, p. 96, 1801, *Cimex.*
Fabricius, Syst. Rhyng., p. 252, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804.
Fallén, Monog. Cimic. Suec., p. 107, 1807.
Zetterstedt, Fauna Lapp., p. 501, 1828.
Fallén, Hemip. Suec., Cimic., p. 128, 1829.
Hahn, Wanz. Ins., ii, p. 75, fig. 160, 1834.
Burmeister, Handb. d. Ent., ii, p. 267, 1835, *Phytocoris.*
Herrich-Schaeffer, Nomen. Ent., i, p. 47, 1835, *Lopus.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 45, figs. 261, 262, 1835, *Lopus.*
Zetterstedt, Ins. Lapp., col. 286, 1840.
Blanchard, Hist. des Ins., Hémip., p. 136, 1840.
Meyer-Duer, Verz. Schw. Rhyng., p. 38, 1843.
Sahlberg, Monog. Geoc. Fenn., p. 82, 1848, *Lopus.* (Oshanin says p. 88.)
Kirschbaum, Rhyng. Geg. v. Wiesbd., Caps., p. 196, 1855, *Lopus.*
Flor, Rhyng. Livl., i, p. 437, 1860.
Fieber, Europ. Hemip., p. 245, 1861 (var. b), *Leptopterna.*
Douglas and Scott, Brit. Hemip., p. 297, 1865, *Lopomorphus.*
Stål, Hemip. Fabr., i, p. 90, 1868.
Thomson, Opusc. Ent., iv, p. 415, 1871.
Reuter, Rev. Crit. Caps., ii, p. 15, 1875, *Leptopterna.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 397, 1878, *Lopomorphus.*
Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886, *Leptopterna.*
Van Duzee, Can. Ent., xix, p. 70, 1887, *Leptopterna.*
Reuter, Rev. Synon., p. 243, No. 209, 1888.
Saunders, Heter. Brit. Isds., p. 227, pl. 20, fig. 10, 1892, *Leptopterna.*
Harrington, Ottawa Nat., vi, p. 27, 1892, *Leptopterna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Leptopterna.*
Slosson, Ent. News, v, p. 5, 1894, *Leptopterna.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Leptopterna.*
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Leptopterna.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Leptopterna.*
Moore, Can Ent., xxxix, p. 163, 1907, *Leptopterna.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Van Duzee, Can. Ent., xl, p. 111, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
?frumentarius Poda, Ins. Musei Graec., p. 60, 1761, *Cimex.*
riparius Scopoli, Ent. Carn., p. 135, 1763, *Cimex.*
†*laevigatus* De Geer, Mémoires, iii, p. 292, 1773, *Cimex.*
Retzius, Genera et Spec. Ins., p. 88, No. 437, 1783, *Cimex.*
lateralis Fabricius, Genera Ins., p. 300, 1776, *Cimex.*
Fabricius, Ent. Syst., iv, p. 184, 1794.
Wolff, Icon. Cimic., iii, p. 115, fig. 109, 1802.
Fabricius, Syst. Rhyng., p. 254, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804.
?deses Müller, Zool. Danicae Prodr., p. 108, 1776, *Cimex.*
antenni-rectus Goeze, Ent. Beytr., ii, p. 267, 1778, *Cimex.*
v-flavum Goeze, Ent. Beytr., ii, p. 279, 1778, *Cimex.*
porrectus Geoffroy *in* Fourcroy, Ent. Paris., p. 206, 1785, *Cimex.*
recticornis Gmelin *in* Linnaeus, Syst. Nat., edn. 13, p. 2185, 1788, *Cimex.*
abbreviatus Wolff, Icon. Cimic., iii, p. 116, fig. 110, 1802.
?picticeps Curtis, Brit. Ent., xv, pl. 701, 1838.
carinatus Douglas and Scott, Brit. Hemip., p. 294, 1865, *Lopomorphus.*
belangeri Provancher, Nat. Can., iv, p. 78, 1872.
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., Md. (Europe.)

880. **Miris ferrugatus** Fall.

Fallén, Monog. Cimic. Suec., p. 107, 1807.
Fallén, Hemip. Suec. Cimic., p. 129, 1829.
Herrich-Schaeffer, Wanz. Ins., iii, p. 46, fig. 263, 1835, *Lopus.*
Meyer-Duer, Verz. Schw. Rhyn., Caps., p. 39, 1843, *Lopus.*
Kirschbaum, Rhyng. Geg. v. Wiesbd., Caps., p. 196, 1855, *Lopus.*
Flor, Rhyng. Livl., i, p. 439, 1860.
Douglas and Scott, Brit. Hemip., p. 295, pl. 10, fig. 6, 1865, *Lopomorphus.*
Reuter, Revue Crit. Caps., ii, p. 14, 1875, *Leptopterna.*
Saunders, Heter. Brit. Isds., p. 227, pl. 20, fig. 9, 1892, *Leptopterna.*
Hüeber, Synop. deut. Blindw., i, p. 64, 1894.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900, *Leptopterna.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
discors Costa, Cimic. Reg. Neap., Cent. 3, p. 57, 1852, *Lopus.*
dolobratus Fieber, Europ. Hemip., p. 245, 1861, *Leptopterna* (var. a).
Localities: Quebec, Alaska. (Europe.)

881. **Miris amoenus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872, *Leptopterna.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876, *Leptopterna.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Leptopterna.*
Gillette and Baker, Hemip. Colo., p. 29, 1895, *Leptopterna.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
Localities: Ia., Dak., Colo., Idaho.

Genus **Stenodema** Lap.
Orthotype *virens* (Fabr.)

Laporte, Essai Classif. Syst. Hémip., p. 40, 1832.
Reuter, Rev. Syst., p. 237, 1888.
Hüeber, Synop. deut. Blindw., i, pp. 33, 36, 1894.

Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 1, 1904.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
†*Miris* Herrich-Schaeffer, Wanz. Ins., iii, p. 37, 1836.
Kirschbaum, Rhyng. geg. v. Wiesbd., Caps., pp. 32, 105, 1855.
Fieber, Wien. Ent. Monat., ii, p. 301, 1858.
Fieber, Europ. Hemip., pp. 62, 239, 1861.
Douglas and Scott, Brit. Hemip., p. 282, 1865.
Reuter, Genera Cimic. Eur., p. 8, 1875.
Reuter, Rev. Crit. Caps., ii, p. 1, 1875.
Distant, Biol. Centr. Am., Heter., i, p. 236, 1883.
Puton, Cat. Hemip. Palae., edn. 3, p. 45, 1886.
Uhler, Check List, p. 17, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886.

Subgenus **Brachystira** Fieb.
Haplotype *calcaratus* (Linn.)

Fieber, Wien. Ent. Monat., ii, p. 301, 1858.
Van Duzee, Check List Hemip., p. 36, 1916.
‡*Brachytropis* Fieber, Wien. Ent. Monat., ii, p. 343, 1858.
Fieber, Europ. Hemip., pp. 62, 241, 1861.
Thomson, Opusc. Ent., iv, p. 413, 1871.
Reuter, Genera Cimic. Eur., p. 8, 1875.
Reuter, Rev. Crit. Caps., i, p. 78; ii, p. 1, 1875 (as subgen. of *Miris*)
Puton, Cat. Hemip. Palae., p. 45, 1886 (subgen. of *Miris*).
Uhler, Check List, p. 17, 1886 (as genus).
Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 3, 1904 (as subgen.).

882. **Stenodema trispinosum** Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlvi, No. 15, pp. 4, 8, 1904.
Van Duzee, Can Ent., xl, p. 111, 1908.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 4, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Parshley, Psyche, xxi, p. 140, 1914. [*tropis.*
†*calcaratus* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876, *Brachy-*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877, *Brachytropis.*
Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889, *Brachytropis.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Brachytropis.*
Gillette and Baker, Hemip. Colo., p. 28, 1895, *Brachytropis.*
Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900, *Brachytropis.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Brachytropis.*
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Brachytropis.*
Localities: Quebec, Ont., Me., Mass., N. Y., D. C., Colo., Calif., Brit. Col.

Subgenus **Stenodema** Lap.

Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 4, 1904.
Lobostethus Fieber, Wien. Ent. Monat., ii, p. 301, 1858 (haplotype *virens*
Fieber, Europ. Hemip., pp. 62, 242, 1861. [Fabr.).
†*Miris* Thomson, Opusc. Ent., iv, p. 414, 1871.
Reuter, Genera Cimic. Eur., p. 8, 1875.
Reuter, Rev. Crit. Caps., i, p. 78; ii, p. 2, 1875.

883. **Stenodema vicinum** (Prov.)

Provancher, Nat. Can., iv, p. 77, 1872, *Miris.*
Parshley, Psyche, xxi, p. 141, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
†*vagans* Say, Hemip. N. Harm., p. 26; Fitch reprint, p. 792; Compl. Writ., i, p. 348, *Miris.*
instabilis (Uhler), Wheeler's Rept. Surv. 100th Mer., v, p. 836, 1875, *Miris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 361, 1876, *Miris.* [*Miris.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877; iv, p. 506, 1878,
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Miris.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 395, 1878, *Miris.*
Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886, *Miris.*
Van Duzee, Can. Ent., xix, p. 70, 1887, *Miris.*
Bergroth, Wien. Ent. Zeit., xvii, p. 33, 1898.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Miris.*
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Miris.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Miris.*
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907, *Miris.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
affinis (Reuter), Caps. Am. Bor., p. 59, 1876, *Miris.*
Van Duzee, Can. Ent., xxi, p. 3, 1889, *Miris.*
Distant, Biol. Centr. Am., Heter., i, p. 236, 1883, *Miris.*
Atkinson, Cat. Capsidae, p. 33, 1889, *Miris.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Miris.*
Harrington, Ottawa Nat., vi, p. 27, 1892, *Miris.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Miris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Miris.*
Gillette and Baker, Hemip. Colo., p. 28, 1895, *Miris.*
Slosson, Ent. News, ix, p. 251, 1898, *Miris.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Miris.*
Van Duzee, Can. Ent., xxxviii, p. 407, 1906, *Miris.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Miris.*
Van Duzee, Can. Ent., xl, p. 111, 1908. [*Miris.*
[*rubellus* Uhler MS], Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905,
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Miris rubillus.*

Localities: Quebec, Ont., Me., N. H., N. Y., Pa., Mich., Kans., Colo., N. Mex., Calif.

884. **Stenodema dorsalis** (Say)

Say, Heter. N. Harm., p. 26; Fitch reprint, p. 793; Compl. Writ., i, p. 348, [*Miris.*

Locality: "U. S."

885. **Stenodema virens** (Linn.)

Linnaeus, Syst. Nat., edn. 12, i, p. 730, 1767, *Cimex.*
Schrank, Enum. Ins. Austr., p. 288, 1781, *Cimex.*
Rossi, Fauna Etrusca, ii, p. 251, 1790, *Cimex.*
Fabricius, Ent. Syst., iv, p. 185, 1794, *Miris.*
Wolff, Icon. Cimic., ii, p. 78, fig. 75, 1801, *Miris.*
Schrank, Fauna Boica, ii, p. 95, 1801, *Cimex.*
Fabricius, Syst. Rhyng., p. 254, 1803, *Miris.*

Latreille, Hist. Nat. Crust. Ins., xii, p. 228, 1804, *Miris.*
Le Peletier and Serville, Encyc. Méth., x, p. 324, 1825, *Miris.*
Laporte, Essai Classif. Syst. Hémip., p. 40, 1832.
Herrich-Schaeffer, Nom. Ent., i, p. 47, 1835, *Miris.*
Brullé, Hist. des Ins., ix, p. 409, pl. 35, fig. 5, 1835, *Miris.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 42, fig. 257, 1836, *Miris.*
Spinola, Essai sur les Hémip., p. 137, 1837 (1840), *Miris.*
Blanchard, Hist. des Ins., Hémip., p. 135, 1840, *Miris.*
Meyer-Duer, Verz. Schw. Rhyng., p. 35, 1843, *Miris.*
Kolenati, Melet. Ent., ii, p. 99, 1845, *Miris.*
Sahlberg, Monog. Geoc. Fenn., p. 86, 1848, *Miris.*
Costa, Cimic. Reg. Neap., Cent. iii, p. 31, 1852, *Miris.*
Kirschbaum, Rhyng. geg. v. Wiesbd., Caps., p. 35, 1855, *Miris.*
Flor, Rhyng. Livl., i, p. 423, 1860, *Miris.*
Fieber, Europ. Hemip., p. 243, 1861, *Lobostethus.*
Thomson, Opusc. Ent., iv, p. 414, 1871, *Miris.*
Reuter, Rev. Crit. Caps., ii, p. 2, 1875, *Miris.*
Reuter, Revue Synon., p. 237, No. 203, 1888.
Reuter, Of. Finska Vet.-Soc. Forh., xlvi, No. 15, p. 4, 1904.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
†*laevigatus* (Zetterstedt), Fauna Lapp., p. 501, 1828, *Miris.*
Hahn, Wanz. Ins., p. 76, fig. 161, 1834, *Miris.*
Zetterstedt, Ins. Lapp., column 286, 1840, *Miris.*
virescens (Fallén), Hemip. Suec., Cimic., p. 131, 1829, *Miris* (as var.).
†*ruficornis* (Hahn), Wanz. Ins., ii, p. 220, 1834, *Miris.*
Localities: "N. Am." (Europe.)

Genus **Megaloceroea** Fieb.
Haplotype *longicornis* Fieb. = *linearis* (Fues.)

Fieber, Wien. Ent. Monat., ii, p. 301, 1858.
Fieber, Europ. Hemip., pp. 62, 243, 1861.
Walker, Cat. Heter., vi, p. 41, 1873.
Reuter, Genera Cimic. Eur., p. 9, 1875.
Reuter, Crit. Rev. Caps., i, p. 78; ii, p. 5, 1875.
Hüeber, Synop. deut. Blindw., i, pp. 33, 52, 1894. [*linearis* Fus. type).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 424, 1904 (names *recticornis* Geof. =
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

886. **Megaloceroea debilis** Uhl.

*Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Miris.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 403, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 122, 1892.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
Gillette and Baker, Hemip. Colo., p. 28, 1895.
Osborn, Ohio Nat., i, p. 12, 1900.
Reuter, Neark. Caps., p. 5, 1909.
Localities: Ia., Colo., Vanc. Isd.

887. **Megaloceroea rubicunda** Uhl.

*Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Miris.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 122, 1892.
Localities: Ia., Colo.

888. **Megaloceroea gracilis** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914, *Stenodema*.
Van Duzee, Check List, p. 36, 1916.
Locality: Calif.

Genus **Mesomiris** Reut.
Haplotype *curtulus* Reut.

Reuter, Neark. Caps., p. 4, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

889. **Mesomiris curtulus** Reut.

Reuter, Neark. Caps., p. 5, 1909.
Localities: Mass., Conn., Md., Pa.

Genus **Trigonotylus** Fieb.
Haplotype *ruficornis* (Geoff.)

Fieber, Wien. Ent. Monat., ii, p. 302, 1858.
Fieber, Europ. Hemip., pp. 66, 243, 1861.
Reuter, Genera Cimic. Eur., p. 9, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 6, 1875 (as subgenus).
Provancher, Pet. Faune Ent. Can., iii, p. 103, 1886.
Hüeber, Synop. Deut. Blindw., i, pp. 33, 54, 1894.
Reuter, Neark. Caps., p. 5, 1909.
Oshanin, Verz. Palae. Hemip., i, p. 773, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
Callimiris Reuter, Caps. Am. Bor., p. 60, 1875 (type *uhleri* Reut.).

890. **Trigonotylus ruficornis** (Geoff.)

Cimex No. 45, Geoffroy, Hist. Abreg. des Ins., i, p. 47, 1762.
Geoffroy *in* Fourcroy, Ent. Paris., p. 209, 1785, *Cimex*.
Fallén, Monog. Cimic. Suec., p. 112, 1807, *Miris* (as new).
Zetterstedt, Fauna Lapp., p. 502, 1828, *Miris*.
Fallén, Hemip. Suec., Cimic., p. 133, 1829, *Miris*.
Herrich-Schaeffer, Nom. Ent., i, p. 47, 1835, *Miris*.
Herrich-Schaeffer, Wanz. Ins., iii, p. 40, 1836, *Miris*.
Spinola, Essai sur les Hémip., p. 187, 1837 (1840), *Miris*.
Zetterstedt, Ins. Lapp., column 287, 1840, *Miris*.
Rambur, Fauna Ent. Andul., p. 158, 1842, *Miris*.
Meyer-Duer, Verz. Schw. Rhyng., p. 37, 1843, *Miris*.
Sahlberg, Monog. Geoc. Fenn., p. 87, 1848, *Miris*.
Costa, Cimic. Reg. Neap., Cent., iii, p. 32, 1852, *Miris*.
Kirschbaum, Rhyn. geg. v. Wiesbd., Caps., p. 192, 1855, *Miris*.
Flor, Rhyng. Livl., i, p. 435, 1860, *Miris*.
Fieber, Europ. Hemip., p. 243, 1861.
Douglas and Scott, Brit. Hemip., p. 290, 1865.
Thomson, Opusc. Ent., iv, p. 413, 1871, *Miris*.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 409, 1872.
Reuter, Crit. Rev. Caps., ii, p. 7, 1875.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 316, 1876; iii, p. 413, 1877; iv, p. 506, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 104, 1886.
Van Duzee, Can. Ent., xix, p. 70, 1887.
Reuter, Revue Synon., p. 242, No. 208, 1888.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Harrington, Ottawa Nat., vi, p. 27, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Slosson, Ent. News, v, p. 5, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Gillette and Baker, Hemip. Colo., p. 28, 1895.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 503, 1900, *Megaloceroea*.
Montgomery, Ent. News, xiii, p. 13, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Megaloceroea*.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Moore, Can. Ent., xxxix, p. 163, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Van Duzee, Can. Ent., xl, p. 112, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Van Duzee, Can. Ent., xliv, p. 320, 1912.

viridis (Provancher), Nat. Can., iv, p. 78, 1872, *Miris*.

Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Kans., Colo., Alaska. (Europe.)

891. **Trigonotylus pulcher** Reut.

Reuter, Caps. Am. Bor., p. 59, 1876.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 248, 1894.
Gillette and Baker, Hemip. Colo., p. 28, 1885.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.

Localities: Me., Mass., N. J., Fla., Kans., Colo., N. Mex., Texas.

892. **Trigonotylus brevipes** Jak.

Jakowlef, Horae Soc. Ent. Ross., xi, p. 63 (Oshanin says 215), 1880.
Reuter, Ann. Mus. Zool. Acad. Imp. St. Pet., ix, p. 5, 1904.
Reuter, Ent. Mo. Mag., Ser. 2, xix, p. 27, 1908.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 6, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.

tenuis Reuter, Rev. d'Ent., xii, p. 208, 1893 (var. of *ruficornis*).
Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 7, p. 1, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.

pallidicornis Reuter, Of. Finska Vet.-Soc. Forh., xlii, p. 161, 1899.

Localities: N. J., Fla., Colo., N. Mex., Calif. (West Indies. Europe, Madagascar.)

893. **Trigonotylus tarsalis** (Reut.)

Reuter, Caps. Am. Bor., p. 60, 1876, *Callimiris*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907, *Callimiris*.

Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907, *Callimiris.*
Reuter, Neark. Caps., p. 6, 1909.
Localities: Kans., Wis., Texas, Manitoba.

894. **Trigonotylus uhleri** (Reut.)

Reuter, Caps. Am. Bor., p. 60, 1876, *Callimiris.*
Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900, *Callimiris.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Callimiris.*
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Localities: N. J., "N. Am."

895. **Trigonotylus confusus** Reut.

Reuter, Neark. Caps., p. 6, 1909.
Locality: Md.

Genus **Teratocoris** Fieb.
Haplotype *antennatus* (Boh.)

Fieber, Wien. Ent. Monat., ii, p. 302, 1858.
Fieber, Europ. Hemip., pp. 63, 245, 1861.
Thomson, Opusc. Ent., iv, p. 416, 1871.
Walker, Cat. Heter., vi, p. 41, 1873.
Reuter, Genera Cimic. Eur., p. 9, 1875.
Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 7, 1875.
Atkinson, Cat. Capsidae, p. 37, 1889.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 144, 1906.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

896. **Teratocoris discolor** Uhl.

Uhler, Ent. Am., iii, p. 68, 1887.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Gillette and Baker, Hemip. Colo., p. 29, 1895.
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Localities: Quebec, Ont., Mass., N. Y., Mo., Colo.

897. **Teratocoris herbaticus** Uhl.

Uhler, Ent. Am., iii, p. 67, 1887.
Reuter, Ent. Tidskr., xxviii, p. 81, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 7, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 29, 1912.
§*miraria* Atkinson, Cat. Capsidae, p. 38, 1889.
Localities: Labrador. (Norway, Sweden.)

898. **Teratocoris saundersi** D. & S.

Douglas and Scott, Ent. Mo. Mag., v, p. 260, 1869.
Reuter, Rev. Crit. Caps., ii, p. 11, 1875.
Saunders, Heter. Brit. Isds., p. 226, pl. 20, fig. 8, 1892.
Hüeber, Synop. deut. Blindw., i, p. 61, 1894.
Reuter, Ent. Tidskr., xxviii, p. 81, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 7, 1909.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 29, note, 1912.
†*longicornis* (Sahlberg), Monog. Geoc. Fenn., p. 87, 1848, *Miris.*
†*antennatus* (Flor), Rhyng. Livl., i, p. 433, 1860, *Miris.*
flori J. Sahlberg, Not. Sallsk. Fauna Flora Fenn., xi, p. 290, 1871.
‖*longicornis* Uhler, Hemip. Colo., p. 29, 1895.
caricis Kirkaldy, Can. Ent., xli, p. 390, 1909 (n.n. for *longicornis* Uhl.).
Localities: Colo. (Europe.)

TRIBE *HORISTINI* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.
Van Duzee, Check List Hemip., p. 36, 1916.
Lopidae, Douglas and Scott, Brit. Hemip., pp. 34, 474, 1865 (as family).
Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 17, 1875, Div. *Loparia.*
Reuter, Genera Cimic. Eur., p. 6, 1875, Div. *Loparia.*
Reuter, Caps. Am. Bor., p. 63, 1876, Div. *Loparia.*
Distant, Biol. Centr. Am., Heter., i, p. 251, 1883, *Loparia.*
Uhler, Check List, p. 17, 1886, *Loparia.*
Provancher, Pet. Faune Ent. Can., iii, p. 96, 1886, *Loparides.*
Resthcniaria Reuter, Festschr. f. Palmen., i, pp. 20, 28, 1905, Division.
Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Resthenini.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 129, 232, 256, 1910,
Oshanin, Kat. Palae. Hemip., p. 68, 1912, Tribe *Resthenaria.* [Division.
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 7, 1913 (Key).

Genus **Platytylellus** Reut.
Orthotype *nigripennis* (Stål)

Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 71, 1907.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 40, 1912. [scription).
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 9, 22, 1913 (de-
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
†*Resthenia* Reuter, Caps. Am. Bor., p. 64, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 251, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 105, 1887.
[Genus *Prepops* seems to be distinct.]

899. **Platytylellus insitivus** (Say)

Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 785; Compl. Writ., 1, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 399, 1878, *Resthenia.* [340, *Capsus.*
Uhler, Stand. Nat. Hist., ii, p. 286, 1884, *Resthenia.*
Van Duzee, Can. Ent., xix, p. 70, 1887, *Resthenia.*
Harrington, Ottawa Nat., vi, p. 27, 1892, *Resthenia.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Resthenia.*
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909, *Resthenia.*
Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125, *Resthenia.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia.*
xanthomelas (Walker), Cat. Heter., vi, p. 92, 1873, *Capsus.*
Slosson, Ent. News, v, p. 5, 1894, *Resthenia.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904, *Resthenia.*
Localities: Ont., N. H., N. Y., N. J., Pa., Fla., Colo.

900. **Platytylellus divisus** (H. S.)

Herrich–Schaeffer, Wans. Ins., ix, p. 167, fig. 960, 1853, *Capsus* (description [on page 166 under name *Capsus tetrastigma*).
Stål, Stet. Ent. Zeit., xxiii, p. 317, 1862, *Resthenia.*
Walker, Cat. Heter., vi, p. 91, 1873, *Capsus.*
Distant, Biol. Centr. Am., Heter., i, p. 258, 1883, *Resthenia.*
Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906, *Resthenia.*
Localities: Fla., Texas. (Mexico.)

901. **Platytylellus ornaticollis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 317, 1862, *Resthenia.*
Reuter, Caps. Am. Bor., p. 64, 1876, *Resthenia.*
Distant, Biol. Centr. Am., Heter., i, p. 253, pl. 22, fig. 5, 1883, *Resthenia.*
Barber, Brookl. Inst., Sci. Bul., i, p. 278, 1906, *Resthenia.*
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 26, 1913 (descrip-
bicinctus Walker, Cat. Heter., vi, p. 100, 1873, *Capsus.* [tion).
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904, *Resthenia.*
Localities: Texas. (Mexico.)

902. **Platytylellus confraternus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872, *Resthenia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877, *Resthenia.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 399, 1878, *Resthenia.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia.*
maculicollis (Reuter), Caps. Am. Bor., p. 65, 1876, *Resthenia.*
Gillette and Baker, Hemip. Colo., p. 30, 1895, *Resthenia.*
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia.*
Banks, Cat. Nearc. Hemip., p. 40, 1910, *Resthenia.*
Localities: N. Y., N. J., Pa., Ga., Fla., Mich., Colo., Texas.

903. **Platytylellus robustus** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 32, 1913.
Locality: Ga.

904. **Platytylellus atripennis** (Reut.)

Reuter, Caps. Am. Bor., p. 65, 1876, *Resthenia.*
Gillette and Baker, Hemip. Colo., p. 29, 1895, *Resthenia.*
Localities: Colo., Texas.

905. **Platytylellus intercidendus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 426, pl. 37, fig. 1, 1893, *Resthenia.*
Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 170, 1909, *Resthenia* (notice).
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 26, 1913 (descrip-
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia.* [tion).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
§*basirittis* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914 [(error for *bivittis*).
Localities: Fla., Calif. (Mexico.)

906. **Platytylellus nigricollis** (Reut.)

Reuter, Caps. Am. Bor., p. 65, 176, *Resthenia.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia.*
Localities: N. Y., N. J., Ohio.

907. **Platytylellus persignandus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 357, pl. 22, fig. 21, 1883, *Resthenia.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906, *Resthenia.*
Localities: Arizona (perhaps *nigricollis*). (Mexico.)

908. **Platytylellus bivittis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 318, 1862, *Resthenia.*
Reuter, Caps. Am. Bor., p. 64, 1876, *Resthenia.*
Distant, Biol. Centr. Am., Heter., i, p. 256, pl. 24, fig. 21, 1883, *Resthenia.*
Gillette and Baker, Hemip. Colo., p. 29, 1895, *Resthenia.*
[*metopus?* (description).
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 49, 1913, *Oncero-*
Localities: Colo., Utah, Idaho. (Mexico.)

909. **Platytylellus insignis** (Say)

Say, Heter N. Harm., p. 22, 1832; Fitch reprint, p. 787; Compl. Writ., i, p. [342, *Capsus.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872, *Resthenia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Resthenia.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Resthenia.*
Uhler, Bul. U. S. Geol. Geog. Sur., iv, p. 507, 1878, *Resthenia.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 400, 1878, *Resthenia.*
Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887, *Resthenia.*
Harrington, Ottawa Nat., vi, p. 27, 1892, *Resthenia.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia.*
Slosson, Ent. News, v, p. 5, 1894, *Resthenia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Resthenia.*
Gillette and Baker, Hemip. Colo., p. 30, 1895, *Resthenia.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Resthenia.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Resthenia.*
Barber, Brookl. Inst. Sci. Bul., i, p. 278, 1906, *Resthenia.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Resthenia.*
Van Duzee, Can. Ent., xl, p. 112, 1908, *Resthenia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909, *Resthenia.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia.*
Parshley, Psyche, xxi, p. 141, 1914, *Resthenia.*
Localities: Ont., Me., N. H., Mass., N. Y., N. J., Pa., Ga., Fla., Ia., Texas.

910. **Platytylellus rubrovittatus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 318, 1862, *Resthenia.*
Reuter, Caps. Am. Bor., p. 65, 1876, *Resthenia.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Resthenia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Resthenia.*
Localities: Mass., Fla., Colo., Texas. (Mexico.)

911. **Platytylellus circumcinctus** (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 787; Compl. Writ., i, p.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893, *Lopidea.* [343, *Capsus.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 249, 1894, *Resthenia.*
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Resthenia.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910, *Resthenia.*
Localities: N. J., Pa., Ind., Utah. (Mexico.)

912. **Platytylellus incisus** (Walk.)

Walker, Cat. Heter., vi, p. 92, 1873, *Capsus.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 204, 1904, *Resthenia.*
Locality: Fla.

[**Platytylellus eremicola** Uhl. MS]

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Resthenia.*
Locality: Colo.

Genus **Opistheuria** Reut.
Logotype *latipennis* (Stål)

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 170, 1907.
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 10, 50, 1913 [names *latipennis* type).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

913. **Opistheuria clandestina** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 110, 1915. [1909.
Resthenia sp. (No. 143) Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181,
Locality: Fla.

Genus **Oncerometopus** Reut.
Logotype *nigriclavus* Reut.

Reuter, Caps. Am. Bor., p. 65, 1876. [scription).
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, pp. 9, 47, 1913 (de-
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 136, 1906 (names *nigriclavus* type).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.

914. **Oncerometopus nigriclavus** Reut.

Reuter, Caps. Am. Bor., p. 66, 1876.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 249, 1894.
Gillette and Baker, Hemip. Colo., p. 30, 1895.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n. s. 113, p. 40, 1913.
Localities: Kans., Colo., Texas, Ariz., Calif.

915. **Oncerometopus ruber** Reut.

Reuter, Caps. Am. Bor., p. 66, 1876.
Gillette and Baker, Hemip. Colo., p. 30, 1895.
Localities: Colo., Texas.

TRIBE *CAPSINI* (Reut.)

Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883, Div. *Capsaria.*
Atkinson, Cat. Capsidae, p. 52, 1889, Div. *Capsaria.*
Reuter, Hemip. Gymn. Eur., v, p. 5, 1896, Div. *Capsaria.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 454, 1904.
Reuter, Festsch. f. Palmen, i, pp. 21, 29, 1905, Div. *Capsaria.*
Kirkaldy, Can. Ent., xxxviii, p. 372, 1906.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 45, 1909, Div. *Capsaria.*

Reuter, Neark. Caps., p. 9, 1909, Div. *Capsaria.* (Key.) [*Capsaria.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 129, 133, 156, 1910, Div.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 205, 1916.
Van Duzee, Check List Hemip., p. 37, 1916.
Miridiaria Reuter, Rev. Crit. Caps., i, p. 76, 1875 (Division).
Reuter, Genera Cimic. Eur., p. 5, 1875 (Division).
Uhler, Check List, p. 17, 1886.

DIVISION *MYRMECORARIA* Reut.

Reuter, Hemip. Gymn. Eur., iii, p. 564, 1883.
Reuter, Festsch. f. Palmen, i, pp. 22, 29, 1905.
Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Myrmecorini.*
Oshanin, Verz. Palae. Hemip., i, p. 647, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 205, 1916.
Van Duzee, Check List Hemip., p. 37, 1916.

Genus **Mimoceps** Uhl.
Logotype *insignis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 83, 1890.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906 (names *insignis* type).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

916. **Mimoceps insignis** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 84, 1890.
Localities: N. Y., Ill.

917. **Mimoceps gracilis** Uhl.

¶Van Duzee, Can. Ent., xxi, p. 4, 1889 (MS name).
Uhler, Trans. Md. Acad. Sci., i, p. 85, 1890.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Van Duzee, Can. Ent., xliv, p. 322, 1912. [*Globiceps.*
†*flavomaculatus* Provancher, Pet. Faune Ent. Can., iii, p. 147, 1887,
Localities: Ont., N. Y., Ia., Utah.

DIVISION *PITHANARIA* (D. & S.)
Pithanidae Douglas and Scott, Brit. Hemip., pp. 28, 280, 1865 (Family).

Genus **Pithanus** Fieb.
Haplotype *maerkelii* H. S.

Fieber, Wien. Ent. Monat., ii, p. 303, 1858.
Fieber, Europ. Hemip., pp. 61, 239, 1861.
Douglas and Scott, Brit. Hemip., p. 280, 1865.
Reuter, Genera Cimic. Eur., p. 25, 1875.
Reuter, Rev. Crit. Caps., i, p. 87, ii, p. 103, 1875.
Hüeber, Synop. deut. Blindw., i, p. 26, 1894.
Reuter, Festsch. f. Palmen, i, pp. 23, 31, 1905.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 134, 1910.

918. **Pithanus maerkelii** (H. S.)

Herrich-Schaeffer, Wanz. Ins., iv, p. 78, fig. 406, 1839, *Capsus.*
Kirschbaum, Rhyn. geg. v. Wiesbd., i, Capsidae, p. 44, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 513, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 239, 1861.

Walker, Cat. Heter., vi, p. 88, 1873, *Capsus.*
Douglas and Scott, Brit. Hemip., p. 281, pl. 10, fig. 3, 1865.
Reuter, Rev. Crit. Caps., ii, p. 103, 1875.
Saunders, Trans. Ent. Soc. Lond. for 1875, p. 254.
Atkinson, Cat. Capsidae, p. 30, 1889.
Saunders, Hemip. Heter., Brit. Isds., p. 219, pl. 20, fig. 1, 1892.
Hüeber, Synop. deut. Blindw., i, p. 26, 1894.
Olsen, Bul. Brookl. Ent. Soc., x, p. 34, 1915.
Parshley, Ent. News, xxvii, p. 104, 1916. [*Capsus.*
flavolimbatus (Boheman), Kong. Vet. Akad. Handl. for 1849, p. 252,
vittatus (Dahlbon), Kong. Vet. Akad. Handl. for 1850, p. 205, *Cyllecoris.*
Localities: Nov. Sco., Me., N. Y. (Europe.)

DIVISION *PHYTOCORARIA* (Doug. & Scott)

Douglas and Scott, Brit. Hemip., pp. 29, 299, 1865, Fam. *Phytocoridae* (part).
Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 19, 1875.
Reuter, Genera Cimic. Eur., pp. 6, 10, 1875.
Reuter, Deut. Ent. Zeit., xxi, p. 25, 1877.
Uhler, Check List, p. 18, 1886 (part).
Provancher, Pet. Faune Ent. Can., iii, p. 96, 1886, *Phytocorides.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 448, 1904.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.
Van Duzee, Check List Hemip., p. 37, 1916.
Garganaria Reuter, Festschr. f. Palmen, i, pp. 18, 28, 1905 (Division).

Genus **Paraxenetus** Reut.
Logotype *bracteatus* (Dist.)

Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 46, 1909.
Reuter, Neark. Caps., pp. 9, 13, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

919. **Paraxenetus guttulatus** (Uhl.)

Uhler, Ent. Am., iii, p. 150, 1887, *Eucerocoris.*
Smith, Cat. Ins. N. J., edn. 3, 132, 1900, *Eucerocoris.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Eucerocoris.*
Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906, *Eucerocoris.*
Banks, Ent. News, xviii, p. 425, 1907, *Eucerocoris.*
Reuter, Neark. Caps., p. 13, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Localities: N. Y., N. J., Md., Ill., Texas.

Genus **Neurocolpus** Reut.
Haplotype *nubilus* (Say)

Reuter, Caps. Am. Bor., p. 69, 1876.
Reuter, Neark. Caps., p. 10, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

920. **Neurocolpus nubilus** (Say)

Say, Heter. N. Harm., p. 22, 1832; Fitch reprint, p. 786; Compl. Writ., i, p.
Reuter, Caps. Am. Bor., p. 70, 1876. [341, *Capsus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 413, 1877, *Phytocoris.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327, *Phytocoris.*

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 403, 1878, *Phytocoris*.
Provancher, Pet. Faune Ent. Can., iii, p. 111, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
Townsend, Can. Ent., xxiv, p. 193, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894.
Gillette and Baker, Hemip. Colo., p. 33, 1895.
Smith, Cat. Ins. N. J., edn. 3, p. 129, 1900.
Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 252, pl. 6, fig. 24.
Needham, Psyche, x, p. 26, 1903.
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 110, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Barber, Brookl. Inst. Sci. Bul., i, p. 279, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Parshley, Psyche, xxi, p. 141, 1914.

hirsutulus (Walker), Cat. Heter., vi, p. 95, 1873, *Capsus*.
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 205, 1904.
[*Capsus affinis* Distant seems to be distinct from this species.]
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., N. C., Ga., Fla., Ohio, Colo., Texas.

921. **Neurocolpus mexicanus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 262, pl. 23, fig. 5, 1883; p. 427, 1893.
Reuter, Neark. Caps., p. 13, 1909.
Localities: N. Mex., Ariz.

Genus **Phytocoris** Fall.
Type *populi* (Linn.)

Fallén, Spec. Nova Hemip., p. 10, 1814.
Fallén, Hemip. Suec., Cimic., p. 76, 1829.
Herrich-Schaeffer, Nomen. Ent., i, pp. 36, 42, 1835.
Burmeister, Handb. d. Ent., ii, p. 265, 1835.
Spinola, Essai sur les Hémip., p. 187, 1837 (1840).
Blanchard, Hist. des Ins. Hémip., p. 136, 1840.
Westwood, Intr. Mod. Classif. Ins., Synop., p. 122, 1840 (names *populi* type).
Amyot and Serville, Hémip., p. 278, 1843.
Spinola, Tavola Sinot., p. 43, 1850.
Kirschbaum, Rhyn. Geg. v. Wiesbd., Caps., pp. 8, 38, 1855.
Flor, Rhyn. Livl., i, p. 411, 1860.
Fieber, Wien. Ent. Monat., ii, p. 306, 1858.
Fieber, Europ. Hemip., pp. 65, 258, 1861.
Douglas and Scott, Brit. Hemip., p. 301, 1865.
Thomson, Opusc. Ent., iv, p. 417, 1871.
Reuter, Rev. Crit. Caps., i, p. 79; ii, p. 19, 1875.
Reuter, Genera Cimic. Eur., p. 10, 1875.
Provancher, Pet. Faune Ent. Can., iii, p. 107, 1887.

Reuter, Hemip., Gymn. Eur., v, p. 242, 1888.
Reuter, Neark. Caps., pp. 9, 14, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916. [Reut.).
Compsocerocoris Reuter, Caps. Am. Bor., p. 70, 1876 (type *annulicornis*
Callodemas Uhler, Hemip. Colo., p. 33, 1895 (haplotype *laevis* Uhl.).

922. **Phytocoris lasiomerus** Reut.

Reuter, Neark. Caps., p. 34, 1909.
Parshley, Psyche, xxi, p. 141, 1914.
†*scrupeus* Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887.
†*pallidicornis* Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889.
Harrington, Ottawa Nat., vi, p. 27, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
†*annulicornis* Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905. [123, 1893.
Localities: Quebec, Ont., Me., N. Y., Ia., Colo.

923. **Phytocoris pallidicornis** Reut.

Reuter, Caps. Am. Bor., p. 69, 1876.
Gillette and Baker, Hemip. Colo., p. 33, 1895.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
§*pallicornis* Reuter, Neark. Caps., p. 33, 1909.
Localities: Me., Mass., N. Y., Wis., Colo.

924. **Phytocoris laevis** (Uhl.)

Uhler, Hemip. Colo., p. 33, 1895, *Callodemas.*
Reuter, Neark. Caps., p. 14, 1909.
Localities: Colo.

925. **Phytocoris interspersus** Uhl.

Uhler, Hemip. Colo., p. 32, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.
Reuter, Neark. Caps., p. 19, 1909.

a. var. **signifer** Reut.

Reuter, Neark. Caps., p. 19, 1909.
Localities: Colo., Utah, N. Mex., Calif.

926. **Phytocoris canescens** Reut.

Reuter, Neark. Caps., p. 30, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.
Localities: Calif., Utah?

927. **Phytocoris minutulus** Reut.

Reuter, Neark. Caps., p. 24, 1909.
Localities: N. Y., Md.

928. **Phytocoris antennalis** Reut.

Reuter, Neark. Caps., p. 32, 1909.
Localities: Mass., N. Y., D. C.

929. **Phytocoris bipunctatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 77, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
†*antennalis* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.
Locality: Fla.

930. **Phytocoris annulicornis** (Reut.)

Reuter, Caps. Am. Bor., p. 70, 1876, *Compsocerocoris.*
Distant, Biol. Centr. Am., Heter., i, p. 261, 1883, *Compsocerocoris.*
Riley, N. Am. Fauna, vii, p. 249, 1893, *Compsocerocoris.*
? Gillette and Baker, Hemip. Colo., p. 33, 1895, *Compsocerocoris.*
? Osborn, Ohio Nat., i, p. 12, 1900, *Compsocerocoris.*
? Montgomery, Ent. News, xiii, p. 13, 1902, *Compsocerocoris.*
? Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Compsocerocoris.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904, *Compsocerocoris.*
Reuter, Neark. Caps., p. 33, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
Localities: Me., Mass.(?), Pa.(?), Ohio(?), Texas, N. Mex., Colo., Calif.

931. **Phytocoris angustulus** Reut.

Reuter, Neark. Caps., p. 29, 1909.
Locality: W. Va.

932. **Phytocoris fenestratus** Reut.

Reuter, Neark. Caps., p. 24, 1909.
Localities: D. C., N. C., Ga.

933. **Phytocoris inops** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 413, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 402, 1878.
Uhler, Check List., p. 18, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 110, 1887.
Gillette and Baker, Hemip. Colo., p. 33, 1895, *Neurocolpus.*
Smith, Cat. Ins. N. J., edn. 2, p. 129, 1900, *Paracalocoris.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
Localities: Ont., Mass., N. Y., Pa., W. Va., Fla.

934. **Phytocoris eximius** Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 119, 1887.
Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889.
Harrington, Ottawa Nat., vi, p. 27, 1892.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Uhler, Proc. Ent. Soc. Wash., ii, p. 376, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 252, 1894.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191.
Montgomery, Ent. News, xiii, p. 13, 1902.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.

Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 180, 1909.
Reuter, Neark. Caps., p. 23, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Parshley, Psyche, xxi, p. 141, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 17, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Fla., Texas, Calif. (West Indies.)

935. **Phytocoris heidemanni** Reut.

Reuter, Neark. Caps., p. 27, 1909.
Localities: N. Mex., Ariz., Nev.

936. **Phytocoris subnitidulus** Reut.

Reuter, Neark. Caps., p. 26, 1909.
Localities: Md., D. C.

937. **Phytocoris vittatus** Reut.

Reuter, Neark. Caps., p. 28, 1909.
Locality: N. Y.

938. **Phytocoris fumatus** Reut.

Reuter, Neark. Caps., p. 25, 1909.
Localities: D. C., Ga.

939. **Phytocoris validus** Reut.

Reuter, Neark. Caps., p. 31, 1909.
Locality: Colo.

940. **Phytocoris lineatus** Reut.

Reuter, Neark. Caps., p. 30, 1909.
Locality: Colo.

941. **Phytocoris palmeri** Reut.

Reuter, Neark. Caps., p. 32, 1909.
†*annulicornis* Van Duzee, Can. Ent., xl, p. 113, 1908, *Compsocerocoris*.
Locality: Quebec.

942. **Phytocoris bakeri** Reut.

Reuter, Neark. Caps., p. 28, 1909.
Locality: Calif.

943. **Phytocoris vau** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 478, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
Locality: Calif.

944. **Phytocoris roseus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 253, 1894, *Compsocerocoris*.
Reuter, Neark. Caps., p. 27, 1909.
Van Duzee, Trans. San Diego Soc. Nat. His., ii, p. 19, 1914.
Locality: Calif.

945. **Phytocoris ramosus** Uhl.

Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 252, 1894.
Localities: Ariz., Calif.

946. **Phytocoris formosus** Van D.

Van Duzee, Check List Hemip., p. 37, 1916 (n.n. for *reuteri* Van D.).
‖*reuteri* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 18, 1914.
Locality: Calif.

947. **Phytocoris jucundus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 17, 1914.
Locality: Calif.

948. **Phytocoris cunealis** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 16, 1914.
Locality: Calif.

949. **Phytocoris infuscatus** Reut.

Reuter, Neark. Caps., p. 20, 1909 (as var. of *puella*).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, pp. 16, 17, 1914
Localities: Ont., N. Y., D. C., N. C.

950. **Phytocoris rufoscriptus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 15, 1914.
Locality: Calif.

951. **Phytocoris puella** Reut.

Reuter, Caps. Am. Bor., p. 69, 1876.
Heidemann, Proc. Ent. Soc., Wash., ii, p. 226, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Moore, Can. Ent., xxxix, p. 163, 1907.
Reuter, Neark. Caps., p. 20, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 129, 1910.
a. var. **confluens** Reut.
Reuter, Neark. Caps., p. 20, 1909.
Localities: Ont., Mass., N. Y., N. J., Md., D. C., N. C., Fla., Kans.

952. **Phytocoris tibialis** Reut.

Reuter, Caps. Am. Bor., p. 68, 1876.
Van Duzee, Can. Ent., xix, p. 70, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Harrington, Ottawa Nat., viii, p. 66, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Reuter, Neark. Caps., p. 20, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Van Duzee, Can. Ent., xliv, p. 320, 1912. [*Compsocerocoris. vilis* Distant, Biol. Centr. Am., Heter., i, p. 260, pl. 25, fig. 13, 1883, †*pallidicornis* Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887.
Localities: Ont., N. Y., N. J., Pa., Md., Va., Wis., Texas, Ia. (Neotropical.)

953. **Phytocoris conspersipes** Reut.

Reuter, Neark. Caps., p. 22, 1909.
†*breviusculus* Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Localities: Ont., Mass., N. Y., N. J., D. C.

954. **Phytocoris breviusculus** Reut.

Reuter, Caps. Am. Bor., p. 68, 1876.
Reuter, Neark. Caps., p. 21, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Localities: Kans., Colo., Texas.

955. **Phytocoris politus** Reut.

Reuter, Neark. Caps., p. 21, 1909.
Localities: N. Mex., Ariz., Nevada.

956. **Phytocoris vanduzei** Reut.

Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 7, p. 30, 1912 (n.n. for Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912. [*marmoratus* Van D.
‖*marmoratus* (Van Duzee), Trans. Am. Ent. Soc., xxxvi, p. 78, 1910, [*Dichrooscytus*

Locality: N. Mex.

957. **Phytocoris rufus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 477, 1912.
Locality: Fla.

958. **Phytocoris mundus** Reut.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892 (MS name).
Reuter, Neark. Caps., p. 18, 1909.
Localities: Md., D. C.

Genus **Ecertobia** Reut.
Haplotype *decora* Reut.

Reuter, Neark. Caps., pp. 10, 36, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

959. **Ecertobia decora** Reut.

Reuter, Neark. Caps., p. 36, 1909.
Localities: Colo.

Genus **Creontiades** Dist.
Haplotype *rubrinerve* (Stål)

Distant, Biol. Centr. Am., Heter., i, p. 237, 1883.
Kirkaldy, Trans. Am. Ent. Soc., xxxiii, p. 138, 1906.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 157, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.
Pantiliodes Noualhier, Ann. Soc. Ent. Fr., lxii, p. 15, 1893 (haplotype Reuter, Hemip. Gymn. Eur., v, p. 237, 1896. [*punctum* Reut.).
Kangra Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 257.

960. **Creontiades rubrinervis** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862, *Megacoelum*.
Distant, Biol. Centr. Am., Heter., i, p. 237, pl. 23, fig. 12, 1883.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894, *Calocoris*.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191, *Calocoris*.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907; ix, p. 179, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 4, 1913 (descrip-
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914. [tion).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.
Localities: Fla., Calif.

961. **Creontiades filicornis** (Walk.)

Walker, Cat. Heter., vi, p. 96, 1873, *Capsus.*
Uhler, Check List, p. 18, 1886, *Megacoelum.*
Distant, Ann. Mag. Nat. Hist., Ser. 7, xiii, p. 106, 1904.
Locality: Fla.

962. **Creontiades signatus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 269, pl. 23, fig. 11, 1884, *Megacoeulm.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Locality: Texas.

963. **Creontiades femoralis** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 19, 1914.
Locality: Calif.

964. **Creontiades debilis** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 111, 1915.
Localities: Ga., Fla.

Genus **Allorhinocoris** Reut.
Haplotype *flavus* J. Sahlbg.

Reuter, Pet. Nouv. Ent., ii, p. 33, 1876.
Reuter, Hemip. Gymn. Eur., v, pp. 322, 356, 1896.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

965. **Allorhinocoris flavus** J. Sahlbg.

J. Sahlberg, Vet. Akad. Handl., xvi, No. 4, p. 24, 1878.
Atkinson, Cat. Capsidae, p. 53, 1889.
Oshanin, Verz. Palae. Hemip., i, p. 650, 1909.
†*prasinus* Reuter, Pet. Nouv. Ent., ii, No. 147, p. 33, 1876.
Reuter, Hemip. Gymn. Eur., v, p. 323, 1896.
Localities: Oregon. (Palaearctic.)

Genus **Adelphocoris** Reut.
Type *seticornis* Fabr.

Reuter, Of. Finska Vet. Soc. Forh., xxxviii, p. 168, 1896.
Reuter, Hemip. Gymn. Eur., v, pp. 209, 354, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 138, 1906.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

966. **Adelphocoris rapidus** (Say)

Say, Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 783; Compl. Writ., i, p.
Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861, *Capsus.* [339, *Capsus.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 410, 1872, *Calocoris.*
Walker, Cat. Heter., vi, p. 91, 1873, *Capsus.*
Reuter, Caps. Am. Bor., p. 70, 1876, *Calocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877, *Calocoris.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Calocoris.*

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Calocoris.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878, *Deraeocoris.*
Provancher, Pet. Faune Ent. Can., iii, p. 113, 1887, *Calocoris.*
Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889, *Calocoris.*
Harrington, Ottawa Nat., vi, p. 27, 1892, *Calocoris.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Calocoris.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Calocoris.*
Slosson, Ent. News, v, p. 5, 1894, *Calocoris.*
Gillette and Baker, Hemip. Colo., p. 34, 1895, *Calocoris.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Calocoris.*
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Calocoris.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Calocoris.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Calocoris.*
Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906, *Calocoris.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906; pt. 2, p. 159,
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Calocoris.* [1907, *Calocoris.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Calocoris.*
Van Duzee, Can. Ent., xl, p. 113, 1908.
Reuter, Neark. Caps., p. 36, 1909.
Bueno, Can. Ent., xlii, p. 29, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Webster and Stoner, Jl. N. Y. Ent. Soc., xxii, p. 229, 1914.
Parshley, Ent. News, xxvi, p. 208, 1915 (Anatomy).

multicolor Herrich-Schaeffer, Wanz. Ins., viii, p. 19, fig. 795, 1848, *Capsus.*
Reuter, Caps. Am. Bor., p. 70, 1876, *Calocoris.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Miss., Wis., Kans., Ia., Colo., Texas, N. Mex., Ariz., Calif.

967. **Adelphocoris superbus** (Uhl.)

Uhler, Wheeler's Rept. 100th Merid., v, p. 838, pl. 42, fig. 3, 1875, *Calocoris.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Calocoris.*
Townsend, Can. Ent., xxiv, p. 193, 1892, *Calocoris.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Calocoris.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, 123, 1893, *Calocoris.*
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 255, 1894, *Calocoris.*
Gillette and Baker, Hemip. Colo., p. 34, 1895, *Calocoris.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Calocoris.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906; pt. 2, p. 159, 1907,
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907. [*Calocoris.*
Reuter, Neark. Caps., p. 36, 1909.
Localities: Ia., Kans., Colo., Utah, N. Mex., Ariz.

968. **Adelphocoris palmeri** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 410, 1872, *Calocoris.*
Uhler, Wheeler's Surv. 100th Merid., v, p. 838, pl. 42, fig. 4, 1875, *Calocoris.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Calocoris.*
Localities: Colo., Ariz.

Genus **Stenotus** Jak.

Type *sarcptanus* Jak. = *binotatus* Fabr.

Jakowleff, Bul. Soc. Nat. Mosc., lii, pt. 2, p. 288, 1877.
Reuter, Hemip. Gymn. Eur., v, pp. 122, 351, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *sareptanus* type).

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 7, p. 10, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.
‖*Oncognathus* Fieber, Wien. Ent. Monat., ii, p. 303, 1858.
Fieber, Europ. Hemip., pp. 63, 246, 1861.
Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 40, 1875.
Reuter, Genera Cimic. Eur., p. 15, 1875.
Koraciocapsus Kirkaldy, Trans. Ent. Soc. Lond. for 1903, pt. 2, p. 280.

969. **Stenotus binotatus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 172, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 235, 1803, *Lygaeus.*
Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus.*
Fallén, Hemip. Suec. Cimic., p. 78, 1829, *Phytocoris.*
Herrich-Schaeffer, Nomen. Ent., i, p. 50, 1835, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 77, fig. 296, 1835, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 59, 1855, *Capsus* (*Deracocoris*).
Fieber, Wien. Ent. Monats., ii, p. 303, 1859, *Oncognathus.*
Flor, Rhyn. Livl., i, p. 499, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 246, 1861, *Oncognathus.*
Douglas and Scott, Brit. Hemip., p. 323, 1865, *Deracocoris.*
Thomson, Opusc. Ent., iv, p. 422, 1871, *Capsus* (*Phytocoris*).
Reuter, Rev. Crit. Caps., ii, p. 41, 1875, *Oncognathus.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Oncognathus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Oncognathus.*
Howard, Insect Life, v, p. 90, 1892, *Oncognathus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Oncognathus.*
Reuter, Hemip. Gymn. Eur., v, p. 123, pl. 5, fig. 5, 1896.
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Oncognathus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Oncognathus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912. [ii, p. 609, 1806, *Cimex. paykulli* (Turton), *in* Linnaeus, Syst. Nat., Gmelin's edn. 13, Eng. Trans., *sareptanus* Jakowleff, Bul. Soc. Nat. Mosc., lii, p. 289, 1877.
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Mich., Br. Col. (Palaearctic.)

Genus **Ganocapsus** Van D.
Orthotype *filiformis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

970. **Ganocapsus filiformis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.
Locality: Ariz.

Genus **Garganus** Stål
Logotype *albidivittis* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862.
Distant, Biol. Centr. Am., Heter., i, p. 266, 1884.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *albidivittis* type).
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 49, 1909.

Reuter, Neark. Caps., pp. 10, 37, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 6, 1913 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 206, 1916.

971. **Garganus fusiformis** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 789; Compl. Writ., i, p. [344, *Capsus.*
Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.
Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris.*
Van Duzee, Can. Ent., xix, p. 72, 1887.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Seiss, Ent. News, viii, p. 67, 1897.
Osborn, Ohio Nat., i, p. 12, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 61, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
croceipes Herrich-Schaeffer, Wanz. Ins., viii, p. 16, fig. 792, 1848, *Capsus.*
Walker, Cat. Heter., vi, p. 92, 1873, *Capsus.*
Localities: Ont., Mass., N. Y., N. J., Pa., Fla., Kans.

972. **Garganus albidivittis** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.
Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris.*
Distant, Biol. Centr. Am., Heter., i, p. 266, pl. 25, fig. 23, 1884.
Uhler, Check List, p. 20, 1886.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 166, 1909.
Banks, Cat. Hemip., p. 44, 1910. [tion).
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 6, 1913 (descrip-
Locality: Texas (Banks).

Genus **Ectopiocerus** Uhl.
Haplotype *anthracinus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 73, 1890.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 33, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

973. **Ectopiocerus anthracinus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 73, 1890.
? Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910 (probably erroneous).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
Localities: Calif. (N. J. doubtful.)

Genus **Irbisia** Reut.
Haplotype *sericans* Stål

Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 57, 1879.
Reuter, Zool. Jahrb. for 1879, p. 509.
Reuter, Rev. d'Ent., ix, p. 253, 1890.
Reuter, Hemip. Gymn. Eur., v, pp. 11, 348, 1896.
Reuter, Neark. Caps., p. 13, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

974. **Irbisia sericans** (Stål)

Stål, Stet. Ent. Zeit., xix, p. 188, 1858, *Leptomerocoris.*
Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 58, 1879.
Bergroth, Ent. Nachr., xi, p. 270, 1885.
Reuter, Hemip. Gymn. Eur., v, p. 12, 1896.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.
Essig, Inj. Ben. Ins. Calif., edn. 2, p. 213, 1915.
Localities: Alaska, Oregon, Calif.

975. **Irbisia brachycerus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 416, 1872, *Rhopalotomus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Rhopalotomus.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Capsus* (spelled *brachycorus*).
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 267, 1894, *Thyrillus.*
Gillette and Baker, Hemip. Colo., p. 39, 1895, *Thyrillus.*
Cockerell, Can. Ent., xlii, p. 370, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914.
Essig, Inj. Ben. Ins. Calif., edn. 2, p. 213, 1915.

a. var. **solani** Heid.

Heidemann, Proc. Ent. Soc. Wash., xli, p. 200, 1910.
Localities: Idaho, Utah, N. Mex., Calif., Wash.

Genus **Thyrillus** Uhl.
Logotype *pacificus* Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 266, 1894.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

976. **Thyrillus pacificus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Rhopalotomus* [(name only).
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 415, 1872, *Rhopalotomus* de-
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Rhopalotomus.* [scription).
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914, *Irbisia.*
Essig, Inj. Ben. Ins. Calif., edn. 2, p. 213, 1915.
Localities: Mont. Idaho, Nevada, Calif., Wash., Vanc. Isd.

DIVISION *DICHROOSCYTARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 34, 477, 1865, *Dichrooscytidae.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 207, 1916.

Genus **Pycnocoris** Van D.
Orthotype *ursinus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

977. **Pycnocoris ursinus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 24, 1914.
Locality: Calif.

Genus **Lampethusa** Dist.
Haplotype *anatina* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 303, 1884.
Reuter, Of. Finn. Vet. Akad. Forh., li, No. 25, p. 1, 1909 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

978. **Lampethusa anatina** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 303, pl. 29, fig. 13, 1884; p. 451, 1893.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906.
Localities: Texas, Ariz. (Guatemala.)

Genus **Paracalocoris** Dist.
Logotype *jurgiosus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 263, 1883.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 449, 1904.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *jurgiosus* type).
Reuter, Neark. Caps., p. 38, 1909.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 51, 1907 (redescribed).
Reuter, Ann. Soc. Ent. Belg., liv, p. 49, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.
McAtee, Ann. Ent. Soc. Am., ix, p. 366, 1917 (monograph).

979. **Paracalacoris scrupeus** (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 791; Compl. Writ., i, p.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876, *Phytocoris.* [342, *Capsus.*
Distant, Biol. Centr. Am., Heter., i, p. 271, 1884, *Capsus.*
Van Duzee, Can. Ent., xix, p. 70, 1887, *Phytocoris* (§*scrupens*).
Atkinson, Cat. Capsidae, p. 66, 1889, *Phytocoris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Phytocoris.*
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Phytocoris.*
Reuter, Neark. Caps., p. 39, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
McAtee, Ann. Ent. Soc. Am., ix, p. 368, 1916 (with 15 new varieties).
tetrastigma Herrich-Schaeffer, Wanz. Ins., ix, p. 166, fig. 959, 1853, *Capsus.*
(The description of this species will be found under the name *divisus* on page 167 of the work cited.)

a. var. **externus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 16, fig. 791, 1848, *Capsus.*
Walker, Cat. Heter., vi, p. 91, 1873, *Capsus.*
Localities: Ont., Conn., N. Y., N. J., Pa., Ga., Colo.

980. **Paracalocoris colon** (Say)

Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 791; Compl. Writ., i, p.
Uhler, Check List, p. 18, 1886, *Phytocoris.* [346, *Capsus.*
Provancher, Pet. Faune Ent. Can., iii, p. 108, 1887, *Phytocoris.*
Van Duzee, Can. Ent., xix, p. 70, 1887; xxi, p. 3, 1889, *Phytocoris.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Phytocoris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Phytocoris.*
Gillette and Baker, Hemip. Colo., p. 32, 1895, *Phytocoris.*
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904, *Phytocoris.*
Reuter, Neark. Caps., p. 39, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
Knight, Jl. Econ. Ent., viii, p. 297, 1915. (Oviposition.)
McAtee, Ann. Ent. Soc. Am., ix, p. 381, 1917 (with 3 new varieties).
Localities: Ont., Mass., N. Y., Pa., Kans., Colo.

981. **Paracalocoris deleticus** Reut.

Reuter, Neark. Caps., p. 39, 1909.
McAtee, Ann. Ent. Soc. Am., ix, p. 389, 1917.
Locality: Colo.

982. **Paracalocoris heidemanni** Reut.

Reuter, Neark. Caps., p. 40, 1909.
McAtee, Ann. Ent. Soc. Am., ix, p. 385, 1917 (and 1 variety).
Localities: Md., W. Va.

983. **Paracalocoris multisignatus** Reut.

Reuter, Neark. Caps., p. 40, 1909.
McAtee, Ann. Ent. Soc. Am., ix, p. 387, 1917.
Locality: D. C.

984. **Paracalocoris jurgiosus** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 320, 1862, *Calocoris*.
Distant, Biol. Centr. Am., Heter., i, p. 263, pl. 25, fig. 17, 1883.
Banks, Cat. Neare. Hemip., p. 47, 1910.
McAtee, Ann. Ent. Soc. Am., ix, p. 387, 1917.
Localities: Texas. (Mexico.)

984⅛. **Paracalocoris adustus** McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 377, 1917.
Locality: N. J.

984¼. **Paracalocoris hawleyi** Knight

Knight, Ann. Ent. Soc. Am., ix, p. 377, 1917 (and 3 varieties).
Localities: Mass., N. Y., Md.

984½. **Paracalocoris limbus** McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 380, 1917.
Locality: Ga.

984¾. **Paracalocoris acceptus** McAtee

McAtee, Ann. Ent. Soc. Am., ix, p. 389, 1917.
Locality: N. Mex.

[**Paracalocoris instabilis** Uhl. MS]

Smith, Cat. Ins. N. J., edn. 2, p. 129, 1900.
Locality: N. J.

Genus **Calocoris** Fieb.
Logotype *affinis* H. S.

Fieber, Wien. Ent. Zeit., ii, p. 305, 1858.
Fieber, Europ. Hemip., pp. 65, 251, 1861.
Thomson, Opusc. Ent., iv, p. 419, 1871 (as subgenus of *Capsus*).
Reuter, Rev. Crit. Caps., i, p. 80; ii, p. 29, 1875.
Reuter, Genera Cimic. Eur., p. 11, 1875.
Distant, Biol. Centr. Am., Heter., i, p. 266, 1884.
Reuter, Hemip. Gymn. Eur., v, pp. 160, 354, 1896. [pseudotype).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 451, 1904 (names *lineolatus* Goeze

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 137, 1906 (names *affinis* Fieb. type).
Reuter, Neark. Caps., p. 11, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.
‖*Lophyrus* Kolenati, Melet. Ent., ii, p. 106, 1845 (type *sexguttatus* Fabr.).
Closterotomus Fieber, Wien. Ent. Monats., ii, p. 306, 1858 (type *bifasciatus* [Fieb. = *biclavatus* H. S.).

985. **Calocoris norvegicus** (Gmel.)

Gmelin, *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2176, 1788, *Cimex.*
Reuter, Rev. Synon., p. 259, No. 232, 1888.
Reuter, Hemip. Gymn. Eur., v, pp. 204, 377, pl. 7, fig. 4, 1896.
Atkinson, Cat. Capsidae, p. 74, 1889.
Oshanin, Verz. Palae. Hemip., i, p. 698, 1909.
Oshanin, Kat. Palae. Hemip., p. 63, 1912.
Parshley, Psyche, xxi, p. 141, 1914.
†*pabulinus* (Scopoli), Ent. Carn., p. 132, 1763 (vars. 1 and 2), *Cimex.*
Rossi, Fauna Etrus., ii, p. 251, 1790, *Cimex.*
‖*bipunctatus* Fabricius Reise Norweg., p. 346, 1779, *Cimex.*
Fabricius, Spec. Ins., ii, p. 358, 1781, *Cimex.*
Fabricius, Syst. Rhyng., p. 235, 1803, *Lygaeus.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 221, 1804, *Miris.*
Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 486, 1828, *Phytocoris.*
Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus.*
Herrich-Schaeffer, Nom. Ent., i, p. 50, 1835, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 79, fig. 298, 1835, *Capsus.*
Zetterstedt, Ins. Lapp., column 271, 1840, *Phytocoris.*
Rambur, Fauna And., p. 161, 1842, *Phytocoris.*
Meyer, Verz. Rhyn. Schw., p. 51, 1843, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 33, 1853, *Capsus.*
Kirschbaum, Rhyn. Wiesb., Caps., p. 60, 1855, *Capsus* (*Deraeocoris*).
Baerensprung, Cat. Hemip. Europ., p. 14, 1860.
Flor, Rhyn. Livl., i, p. 498, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 254, 1861.
Douglas and Scott, Brit. Hemip., p. 319, 1865, *Deraeocoris.*
Thomson, Opusc. Ent., iv, p. 419, 1871.
Reuter, Rev. Crit. Caps., ii, p. 37, 1875.
Reuter, Genera Cimic. Eur., p. 13, 1875.
Reuter, Caps. Am. Bor., p. 71, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 400, 1878, *Deraeocoris.*
Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887.
Bergroth, Ann. Soc. Ent. Fr. for 1891, Bul., p. 66.
Saunders, Hemip. Heter. Br. Isds., pp. 239, 244, 1892.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 110, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910.
biguttatus (Schrank), Fauna Boic., p. 94, 1801, *Cimex.*
contiguus (Walker), Cat. Heter., vi, p. 95, 1873, *Capsus.*
stramineus (Walker), Cat. Heter., vi, p. 96, 1873, *Capsus.*
Localities: Quebec, Me., Mass., N. Y., N. J., Texas. (Palaearctic.)

986. **Calocoris fulvomaculatus** (De Geer)

De Geer, Mémoires, iii, p. 294, 1773, *Cimex.*
Fallén, Monog. Cimic. Suec., p. 81, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris.*
Fallén, Hemip. Suec., Cimic., p. 88, 1829, *Phytocoris.*
Herrich-Schaeffer, Nomen. Ent., i, p. 48, 1835, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 50, fig. 267, 1836, *Capsus.*
Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris.*
Meyer, Verz. Schw. Rhyn., p. 96, 1843, *Capsus.*
Kolenati, Melet. Ent., ii, p. 109, 1845, *Phytocoris.*
Kirschbaum, Rhyn. v. Wiesbd. Caps., p. 49, 1855, *Capsus* (*Deracocoris*).
Baerensprung, Cat. Hemip. Eur., p. 14, 1860.
Flor, Rhyn. Livl., i, p. 505, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 253, 1861.
Douglas and Scott, Brit. Hemip., p. 316, 1865, *Deracocoris.*
Stål, Hemip. Fabr., i, p. 85, 1868.
Thomson, Opusc. Ent., iv, p. 419, 1871, *Phytocoris.*
Reuter, Rev. Crit. Caps., ii, p. 33, 1875.
Reuter, Genera Cimic. Europ., p. 12, 1875.
Uhler, Check List, p. 18, 1886.
Reuter, Rev. Synon., p. 255, No. 227, 1888.
Reuter, Hemip. Gymn. Eur., v, pp. 184, 374, 1896.
Snow, Trans. Kans. Acad. Sci., xx, pt. 2, p. 159, 1907.
?bimaculatus (Linnaeus), Syst. Nat., edn. 10, p. 449, 1758, *Cimex.*
†*rolandri* (Retzius), Genera Sp. Ins., p. 88, 1783, *Cimex.*
†*genistae* (Schrank), Fauna Boic., p. 87, 1801, *Cimex.*
†*seticornis* (Schrank), Fauna Boic., p. 89, 1801, *Cimex.*
saltatorius (Fabricius), Syst. Rhyng., p. 239, 1803, *Lygaeus.*
femoralis (Lucas), Expl. Alger., Hemip., p. 82, pl. 3, fig. 4, 1849, *Phytocoris.*
distinguendus Garbiglietti, Cat. Hemip., Ital. Indig., p. 184, 1869.
isabellinus Westhoff, Jahrsb. Westf. Prov. Samm. Wiss. u. Kunst, ix, p. [80, 1880.
simplicicornis Strob, Mitth. Naturw. Ver. Steirm., xxxvi, p. 189, 1900, [(var. of *variegatus*).

Localities: Br. Am., Ariz. (Palaearctic.)

987. **Calocoris uhleri** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 490, 1912 (n.n. for *tinctus* Uhl.).
‖*tinctus* Uhler, Hemip. Colo., p. 34, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
?Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
pinicola Kirkaldy, Can. Ent., xl, p. 390, 1909 (n.n. for *pinus* Uhl., a species [never published).

Localities: N.Y.(?), Colo., N. Mex.

Genus **Poeciloscytus** Fieb.
Logotype *unifasciatus* Fabr.

Fieber, Wien. Ent. Monats., ii, p. 311, 1858.
Fieber, Europ. Hemip., pp. 68, 276, 1861.
Douglas and Scott, Brit. Hemip., p. 466, 1865.
Thomson, Opusc. Ent., iv, p. 428, 1871 (subgen. of *Capsus*).
Reuter, Rev. Crit. Caps., i, p. 83; ii, p. 64, 1875.

Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887.
Reuter, Hemip. Gymn. Eur., v, pp. 52, 349, 1896.
Distant, Fauna Br. Ind., Rhyn., ii, p. 458, 1904 (names *unifasciatus* type).
Reuter, Neark. Caps., p. 12, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

988. **Poeciloscytus unifasciatus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 178, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 243, 1803, *Capsus.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 230, 1804, *Capsus.*
Herrich-Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus.*
Meyer, Verz. Schw. Rhyn., p. 104, 1843, *Capsus.*
Kolenati, Melet. Ent., ii, p. 123, 1845, *Phytocoris.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 61, 112, 1855, *Capsus.*
Fieber, Wien. Ent. Monats., ii, p. 311, 1858.
Flor, Rhyn. Livl., i, p. 544, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 276, 1861.
Douglas and Scott, Brit. Hemip., p. 467, pl. 15, fig. 6, 1865.
Stål, Hemip. Fabr., i, p. 88, 1868.
Thomson, Opusc. Ent., iv, p. 428, 1871, *Capsus.*
Reuter, Rev. Crit. Caps., ii, p. 66, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878.
Reuter, Rev. Synon., p. 274, No. 248, 1888.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Saunders, Heter. Brit. Isds., p. 258, pl. 23, fig. 10, 1892.
Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Gillette and Baker, Hemip. Colo., p. 38, 1895.
Reuter, Hemip. Gymn. Eur., v, pp. 54, 361, 1896.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 505, 1900.
Reuter, Festschr. f. Palmen, ii, p. 18, 1905.
Van Duzee, 20th Rept., N. Y. St. Ent., p. 551, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Schumacher, Zeit. f. Wissen., Insek., v, p. 342, 1909 (life history).
?tomentosus (Villers), Ent. Faunae Suec. Descr., p. 528, 1789, *Cimex.*
semiflavus (Wolff), Icon. Cimic., iv, p. 154, fig. 148, 1804, *Miris.*
Fallén, Monog. Cimic. Suec., p. 80, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 86, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 208, fig. 107, 1831, *Phytocoris.*

a. var. **lateralis** Hahn, Wanz. Ins., ii, p. 85, fig. 169, 1834 (as var. of *semiflavus*).

b. var. **marginatus** Hahn, Wanz. Ins., ii, p. 85, fig. 170, 1834 (as var. of *semiflavus*).

Localities: Quebec, Utah. (Palaearctic.)

989. **Poeciloscytus diffusus** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 415, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876.
Gillette and Baker, Hemip. Colo., p. 38, 1895.
divergens Reuter MS, Parshley, Psyche, xxi, p. 141, 1914.
Localities: Utah, Colo.

990. **Poeciloscytus uhleri** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914 (n.n. for *inter-*[*medius* Uhl.).

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

‖*intermedius* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 261, 1894.

Gillette and Baker, Hemip. Colo., p. 38, 1895.

Localities: Colo., Ariz., Calif.

991. **Poeciloscytus basalis** Reut.

Reuter, Caps. Am. Bor., p. 73, 1876.
Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.
Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Uhler, Proc. Calif. Acad. Sci., Ser. 2, iv, p. 261, 1894.
Gillette and Baker, Hemip. Colo., p. 38, 1895.
Osborn, Ohio Nat., i, p. 12, 1900.
Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48. 1905.
Barber, Brookl. Inst., Sci. Bul., i, p. 280, 1906.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Barber, Ann. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Parshley, Psyche, xxi, p. 141, 1914.

sericeus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 422, 1877.

Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., Ga., Fla., Kans.

992. **Poeciloscytus cuneatus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 435, 1893, *Lygus.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 192.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 62, 1904.
Osborn, Ohio Nat., v, p. 202, 1904, *Lygus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

obscurus Uhler, Proc. Zool. Soc. Lond. for 1893, p. 715.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.

Localities: Fla., Texas. (Mexico, West Indies.)

993. **Poeciloscytus elegans** Reut.

Reuter, Neark. Caps., p. 60, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 23, 1914.

Locality: Calif.

994. **Poeciloscytus basivittis** Reut.

Reuter, Neark. Caps., p. 61, 1909.

Locality: Colo.

995. **Poeciloscytus venaticus** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Charagochilus* [(name only).
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 414, 1872 (description).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876, *Systratiotus.*
Uhler, Check List, p. 19, 1886, *Systratiotus.*
Provancher, Pet. Faune Ent. Can., iii, p. 125, 1887, *Systratiotus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Systratiotus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Systratiotus.*
Gillette and Baker, Hemip. Colo., p. 38, 1895, *Systratiotus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Systratiotus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Systratiotus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Polymerus.*
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
rubronotatus (Provancher), Nat. Can., iv, p. 105, 1872, *Rhopalotomus.*
americanus (Reuter), Caps. Am. Bor., p. 73, 1876, *Systratiotus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Systratiotus.*
Harrington, Ottawa Nat., vi, p. 28, 1892, *Systratiotus.* [*Systratiotus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893,
Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Systratiotus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Systratiotus.*
Gillette and Baker, Hemip. Colo., p. 38, 1895, *Systratiotus.*
Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Systratiotus.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904, *Systratiotus.*
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904, *Systratiotus.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Systratiotus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Systratiotus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907, *Polymerus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909, *Polymerus.*
Reuter, Neark. Caps., p. 61, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Fla., Ia., Kans., Colo., Utah, Texas, N. Mex., Calif., Br. Col., Manitoba.

[**Poeciloscytus pusillus** Reut. MS]

Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.
Localities: Kans. (Popenoe.)

Genus **Dichrooscytus** Fieb.
Logotype *rufipennis* Fall.

Fieber, Wien. Ent. Monats., ii, p. 309, 1858.
Fieber, Europ. Hemip., pp. 67, 269, 1861.
Douglas and Scott, Brit. Hemip., p. 477, 1865.
Thomson, Opusc. Ent., iv, p. 422, 1871.
Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 42, 1875.
Reuter, Hemip. Gymn. Eur., v, pp. 318, 350, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *rufipennis* type).
Reuter, Neark. Caps., p. 11, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 207, 1916.

995½. **Dichrooscytus speciosus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 236, 1916.
Locality: Calif.

996. **Dichrooscytus suspectus** Reut.

Reuter, Neark. Caps., p. 37, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 236, 1916.
†*rufipennis* Uhler, Check List, p. 18, 1886.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Localities: N. Y., N. J., D. C., Colo.

997. **Dichrooscytus elegans** Uhl.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892 (name only).
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Reuter, Neark. Caps., p. 38, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: Ont., N. Y., D. C., N. C., Mich., N. Mex., Calif.

998. **Dichrooscytus irroratus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 482, 1912.
Locality: Colo.

999. **Dichrooscytus maculatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 483, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Localities: Ga., Fla.

Genus **Horcias** Dist.
Logotype *variegatus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 277, 1884.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 141, 1906 (names *variegatus* type).
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 57, 1907 (redescribed).
Reuter, Neark. Caps., pp. 11, 41, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.
‖*Metriorrhynchus* Reuter, Caps. Am. Bor., p. 74, 1876 (as subgenus).
Metriorrhynchomiris Kirkaldy, Entomologist xxxvii, p. 280, 1904 (n.n. for Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 140, 1908. [*Metriorrhynchus.*

1000. **Horcias dislocatus** (Say)

Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 784; Compl. Writ., i, p.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Lygus.* [339, *Capsus.*
Uhler, Proc. Bost. Soc. Nat. Hist, xix, p. 406, 1878, *Lygus.*
Uhler, Check List, p. 19, 1886, *Poecilocapsus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus.*
Atkinson, Cat. Capsidae, p. 86, 1889, *Lygus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 483, 1912.
melaxanthus (Herrich-Schaeffer), Wanz. Ins., viii, p. 18, fig. 794, 1848,
Walker, Cat. Heter., vi, p. 91, 1873, *Capsus.* [*Capsus.*

a. var. **coccineus** (Emmons)
Emmons, Nat. Hist. N. Y., Agric., v, pl. 30, fig. 2, 1854, *Phytocoris.*
‖*scutellatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912 (as var.).

b. var. **goniphorus** (Say)
Say, Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 785; Compl. Writ., i, p,
Reuter, Caps. Am. Bor., p. 74, 1876, *Poecilocapsus.* [341, *Capsus.*
Uhler, Stand. Nat. Hist., ii, p. 287, 1884, *Poecilocapsus.*
Uhler, Check List, p. 19, 1886, *Poecilocapsus.*
Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus.*
Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 1, 123, 1892, *Poecilocapsus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus.*
Gillette and Baker, Hemip. Colo., p. 58, 1895, *Poecilocapsus.*
Slosson, Ent. News, ix, p. 251, 1898, *Poecilocapsus.*
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Poecilocapsus.*
Moore, Can. Ent., xxix, p. 163, 1907, *Poecilocapsus.*
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.
Parshley, Psyche, xxi, p. 142, 1914, *Poecilocapsus.*
limbatellus (Walker), Cat. Heter., vi, p. 93, 1873, *Capsus* (yellow form).
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 33, 1912 (as
Parshley, Psyche, xxi, p. 141, 1914. [var. of *affinis*).
marginatus (Walker), Cat. Heter., vi, p. 96, 1873, *Capsus* (red form).
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 111, 1904, *Poecilocapsus.*

c. var. **affinis** (Reut.)
Reuter, Caps. Am. Bor., p. 74, 1876, *Poecilocapsus.*
Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus.*
Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 1, p. 123, 1892, *Poecilocapsus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus.*
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Poecilocapsus.*
Reuter, Neark. Caps., p. 41, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

d. var. **marginalis** (Reut.)
Reuter, Caps. Am. Bor., p. 75, 1876, *Poecilocapsus.*
Provancher, Pet. Faune Ent. Can., iii, p. 123, 1887, *Poecilocapsus.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Poecilocapsus.*
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Poecilocapsus.*
Harrington, Ottawa Nat., vi, p. 28, 1892, *Poecilocapsus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 1, p. 123, 1892, *Poecilocapsus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Poecilocapsus.*
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Poecilocapsus.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Poecilocapsus* (spelled *marginatus*).
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

e. var. **nigrita** Reut.
Reuter, Neark. Caps., p. 41, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.

f. var. **pallipes** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912

g. var. **residuus** Van D.
Van Duzee, Check List, p. 39, 1916 (n.n. for *thoracicus* Van D.).
‖*thoracicus* Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912.
Localities: Quebec, Ont., Me., Conn., N. Y., N. J., Mich., Ind., Ia., Wis.

1001. **Horcias sexmaculatus** (Barb.)

Barber, Brookl. Inst., Sci. Bul., i, p. 280, 1906, *Poecilocapsus.*
Reuter, Neark. Caps., p. 41, 1909.
Locality: Texas.

1002. **Horcias fallax** Reut.

Reuter, Neark. Caps., p. 42, 1909.
Locality: Pa.

1003. **Horcias marmoratus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 263, 1894, *Poecilocapsus.*
Localities: Md., Texas.

Genus **Poecilocapsus** Reut.
Logotype *lineatus* Fabr.

Reuter, Caps. Am. Bor., p. 73, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 274, 1884.
Reuter, Neark. Caps., p. 11, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1004. **Poecilocapsus lineatus** (Fabr.)

Fabricius, Ent. Syst. Suppl., p. 541, 1798, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 234, 1803, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 86, 1868, *Calocoris.*
Fitch, 13th Rept. N. Y. St. Ent. for 1869, p. 513, 1870, *Phytocoris.*
Reuter, Caps. Am. Bor., p. 74, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Lygus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878, *Lygus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 406, 1878, *Lygus.*
Lintner, 1st Rept. N. Y. St. Ent., p. 271, 1882.
Provancher, Pet. Faune Ent. Can., iii, p. 122, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
Townsend, Trans. Ent. Soc. Wash., ii, p. 54, 1891.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.
Slingerland, Cornell Univ. Agr. Exp. St., Ent. Div. Bul. 58, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Slosson, Ent. News, ix, p. 251, 1898.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Moore, Can Ent., xxxix, p. 163, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Barber, Ann. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Parshley, Psyche, xxi, p. 142, 1914. [Compl. Writ., i, p. 339, *Capsus.*

quadrivittatus (Say), Heter. N. Harm., p. 20, 1832; Fitch reprint, p. 784; Le Baron, 1st Rept. Nox. Ins. Illinois, p. 61, 1871, *Capsus.* Lintner, 1st Rept. N. Y. St. Ent., p. 271, fig. 78, 1882.

§*vittatus* Uhler, Stand. Nat. Hist., ii, p. 286, 1884.

bellus (Emmons), Nat. Hist. N. Y. Agric., v, pl. 30, fig. 1, 1854, *Phytocoris.*
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., Texas, N. Mex.

1005. **Poecilocapsus nigriger** (Stål)

Stål, Stet. Ent. Zeit., xxiii, p. 319, 1862, *Brachycoleus.*
Walker, Cat. Heter., vi, p. 99, 1873, *Capsus.*
Reuter, Caps. Am. Bor., p. 64, 1875.
Uhler, Stand. Nat. Hist., ii, p. 287, 1884.
Distant, Biol. Centr. Am., Heter., i, p. 275, pl. 22, figs. 12, 13, 1884.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 166, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.
Van Duzee, Trans. San Diego, Soc. Nat. Hist., ii, p. 19, 1914.
Localities: Fla., Calif. (Mexico.)

Genus **Neocapsus** Dist.
Haplotype *mexicanus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 277, 1884.

1006. **Neocapsus cuneatus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 438, pl. 38, fig. 6, 1893.
Banks, Cat. Nearc. Hemip., p. 46, 1910.
Localities: Texas. (Mexico.)

Genus **Pallacocoris** Reut.
Haplotype *suavis* Reut.

Reuter. Caps. Am. Bor., p. 62, 1876.

1007. **Pallacocoris suavis** Reut.

Reuter, Caps. Am. Bor., p. 62, 1876.
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Localities: Texas, Ia.

DIVISION *CAPSARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 32, 423, 1865, Family *Capsidae.*
Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 44, 1875 (Division).
Reuter, Genera Cimic. Europ., pp. 6, 15, 1875 (Division).
Provancher, Pet. Faune Ent. Can., iii, p. 97, 1886, *Capsides* (part).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 208, 1916.
Lygidae Douglas and Scott, Brit. Hemip., pp. 33, 445, 1865.

Genus **Capsus** Fabr.
Orthotype *ater* Fabr.

Fabricius, Syst. Rhyng., p. 241, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 299, 1804.
Latreille, Genera Crust. Ins., iii, p. 123, 1807.
Fallén, Monog. Cimic. Suec., p. 96, 1807.
Latreille, Consid. Gén., pp. 225, 433, 1810 (names *spissicornis* pseudotype).
Fallén, Hemip. Suec., Cimic., p. 114, 1829.
Hahn, Wanz. Ins., i, p. 125, 1831.
Laporte, Essai Classif. Syst. Hémip., p. 39, 1832.
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 711, 1832.
Westwood, Intr. Mod. Classif, Ins., ii, Synop., p. 121, 1840.
Blanchard, Hist. des Ins., Hémip., p. 139, 1840 (subgen. of *Phytocoris*).
Amyot and Serville, Hémip., p. 280, 1843.
Stål, Hemip. Fabr., i, p. 87, 1868.
Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 77, 1875.
Reuter, Genera Cimic. Eur., p. 21, 1875.
Uhler, Check List, p. 19, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 128, 1887.
Atkinson, Cat. Capsidae, p. 105, 1889.
Reuter, Hemip. Gymn. Eur., v, pp. 13, 348, 1896.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 468, 1904.
Reuter, Neark. Caps., p. 12, 1909.
Oshanin, Verz. Palae. Hemip., i, p. 758, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 157, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.
Rhopalotomus Fieber, Wien. Ent. Monat., ii, p. 307, 1858 (Haplotype *ater* [Linn.).
Fieber, Europ. Hemip., pp. 66, 263, 1861.
Douglas and Scott, Brit. Hemip., p. 439, 1865.
Thomson, Opusc. Ent., iv, p. 430, 1871.
Puton, Cat. Hemip. Palae., p. 52, 1886.

1008. **Capsus ater** (Linn.)

Linnaeus, Syst. Nat., edn. 10, p. 447, 1758; edn. 12, i, p. 725, 1767, *Cimex*.
Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 241, 1803, *Capsus*.
Fallén, Hemip. Suec., Cimic., p. 116, 1829.
Hahn, Wanz. Ins., i, p. 126, 1831.
Flor, Rhyng. Livl., i, p. 486, 1860.
Fieber, Europ. Hemip., p. 264, 1861, *Rhopalotomus*.
Douglas and Scott, Brit. Hemip., p. 440, 1865, *Rhopalotomus*.
Stål, Hemip. Fabr., i, p. 87, 1868.
Walker, Cat. Heter., vi, p. 77, 1873.
Reuter, Rev. Crit. Caps., ii, p. 78, 1875.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 411, 1878, *Rhopalotomus*.
Provancher, Pet. Faune Ent. Can., iii, p. 129, 1887.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Saunders, Heter. Brit. Isds., p. 262, pl. 24, fig. 5, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.

Slosson, Ent. News, v, p. 5, 1895.
Reuter, Hemip. Gymn. Eur., v, pp. 14, 357, 1896.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Moore, Can. Ent., xxxix, p. 163, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Bueno, Can. Ent., xlii, p. 29, 1910.
Parshley, Psyche, xxi, p. 142, 1914.
?sordens (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, p. 2166, 1788, *Cimex.*
nigricornis Hahn, Icon. Monog. Cimic., fig. 20, 1826.

a. var. **tyrannus** (Fabr.)
Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 242, 1803.
Wolff, Icon. Cimic., iii, p. 152, fig. 146, 1804, *Lygaeus.*
Reuter, Hemip. Gymn. Eur., v, p. 15, 1896.
flavipes Provancher, Nat. Can., iv, p. 104, 1872.

b. var. **semiflavus** (Linn.)
Linnaeus, Syst. Nat., edn. 12, i, p. 725, 1867, *Cimex.*
Reuter, Hemip. Gymn. Eur., v, p. 15, 1896.
flavicollis (Fabricius), Syst. Ent., p. 725, 1775, *Cimex.*
Fabricius, Syst. Rhyng., p. 243, 1803.
Wolff, Icon. Cimic., i, p. 32, fig. 32, 1800, *Lygaeus.*
Localities: Ont., Me., N. H., N. Y., N. J., Pa., D. C. (Europe.)

Genus **Coccobaphes** Uhl.
Haplotype *sanguinarius* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878.
Provancher, Pet. Faune Ent. Can., ii, p. 117, 1887.
Reuter, Neark. Caps., p. 11, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1009. **Coccobaphes sanguinarius** Uhl.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 401, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 117, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904.
Reuter, Neark. Caps., p. 37, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
Localities: Ont., Me., N. Y., N. J., Pa., Ia.

Genus **Lygidea** Reut.
Haplotype *illota* (Stål)

Reuter, Pet. Nouv. Ent., i, p. 547, 1875.
Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 54, 1879.
Reuter, Hemip. Gymn. Europ., v, pp. 68, 349, 1896.
Reuter, Neark. Caps., p. 12, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1010. **Lygidea rubecula** (Uhl.)

Uhler, Hemip. Colo., p. 37, 1895, *Neoborus*.
Reuter, Neark. Cap., pp. 45, 46, 1909.
Parshley, Psyche, xxi, p. 141, 1914.

a. var. **infuscata** Reut.
Reuter, Neark. Caps., p. 46, 1909.

b. var. **rosacea** Reut.
Reuter, Neark. Caps., p. 46, 1909.

c. var. **obscura** Reut.
Reuter, Neark. Caps., p. 46, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: Ont., Me., N. H., N. Y., Colo., Calif., Manitoba.

1011. **Lygidea mendax** Reut.

Reuter, Neark. Caps., p. 47, 1909.
Crosby, Can. Ent., xliii, p. 17, 1911.
Crosby, 26th Rept. N. Y. St. Ent., p. 44, 1911.
Parshley, Psyche, xxi, p. 141, 1914.
Knight, Jl. Econ. Ent., viii, p. 295, 1915. (Oviposition.)
Localities: Me., N. Y.

1012. **Lygidea morio** Reut.

Reuter, Neark. Caps., p. 47, 1909.
Locality: Calif.

Genus **Platylygus** Van D.
Orthotype *luridus* (Reut.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 111, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1013. **Platylygus luridus** (Reut.)

Reuter, Neark. Caps., p. 46, 1909, *Lygidea* (as var. of *rubecula* Uhl.)
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: N. Y., Calif.

Genus **Lygus** Hahn
Logotype *limbatus* (Fall.)

Hahn, Wanz. Ins., i, p. 147, 1831.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840 (names *coryli*
Fieber, Wien. Ent. Monats., ii, p. 311, 1858. [Linn. pseudotype).
Fieber, Europ. Hemip., pp. 68, 272, 1861.
Douglas and Scott, Brit. Hemip., p. 456, 1865.
Thomson, Opusc. Ent., iv, p. 423, 1871.
Reuter, Crit. Rev. Caps., i, p. 81; ii, p. 45, 1875.
Reuter, Genera Cimic. Europ., p. 15, 1875.
Distant, Biol. Centr. Am., Heter., i, p. 272, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 118, 1887.
Reuter, Hemip. Gymn. Eur., v, pp. 71, 350, 1896. [pseudotype).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 454, 1904 (names *pabulinus* Linn.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *limbatus* Fall.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916. [type).
Poecilosoma Stephens (MS), Syst. Cat. Brit. Ins., p. 346, 1829.

(A revision of genus *Lygus* by Mr. H. H. Knight, including a number of new species, will soon be published by Cornell University; if out in time the new species will be listed at end of this volume.)

Subgenus **Lygocoris** Reut.
Logotype *pabulinus* (Linn.)

Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 45, 1875.
Reuter, Genera Cimic. Europ., p. 16, 1875.
Reuter, Hemip. Gymn. Eur., v, p. 367, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *pabulinus* type).

1014. **Lygus pabulinus** (Linn.)

Linnaeus, Fauna Suec., p. 253, No. 947, 1761, *Cimex.*
Linnaeus, Syst. Nat., edn. 12, i, p. 727, 1767, *Cimex.*
Fabricius, Genera Ins., p. 301, 1776, *Cimex.*
Fabricius, Ent. Syst., iv, p. 184, 1794, *Miris.*
Walckenaer, Fauna Paris., ii, p. 349, 1802, *Miris.*
Fabricius, Syst. Rhyng., p. 254, 1803, *Miris.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 227, 1804, *Miris.*
Fallén, Monog. Cimic. Suec., p. 75, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 468, 1828, *Phytocoris.*
Fallén, Hemip. Suec., Cimic., p. 79, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 143, fig. 74, 1831.
Burmeister, Handb. d. Ent., ii, p. 270, 1835, *Phytocoris.*
Zetterstedt, Ins. Lapp., column 272, 1840, *Phytocoris.*
Blanchard, Hist. des Ins., Hemip., p. 137, 1840, *Phytocoris.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 57, 1855, *Capsus* (*Deraeocoris*).
Baerensprung, Cat. Hemip. Eur., p. 15, 1860.
Flor, Rhyn. Livl., i, p. 507, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 276, 1861.
Douglas and Scott, Brit. Hemip., p. 457, 1865.
Thomson, Opusc. Ent., iv, p. 424, 1871, *Capsus.*
Reuter, Rev. Crit. Caps., i, p. 81; ii, p. 45, 1875.
Uhler, Check List, p. 18, 1886.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Reuter, Rev. Synon., p. 267, No. 242, 1888.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Saunders, Hemip. Brit. Isds., p. 249, pl. 23, fig. 5, 1892.
Reuter, Hemip. Gymn. Europ., v, pp. 114, 367, 1896.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.
Slosson, Ent. News, xiii, p. 8, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Horvath, Ann. Mus. Natl. Hung., xi, p. 337, 1911.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912.
Parshley, Psyche, xxi, p. 141, 1914.

nigrophthalmus (Retzius), Genera et Spec. Ins., p. 88, 1783, *Cimex.*
?aerugineus (Fourcroy), Ent. Paris., p. 208, 1785, *Cimex.*
hortuorum (Tigny), Hist. Nat. des Ins., iv, p. 287, 1813, *Cimex.*

†*affinis* (Meyer), Verz. Rhyn. Schw. Caps., p. 48, pl. 1, fig. 5, 1843, *Capsus.*
solani Curtis, Farm Ins., p. 434, fig. 59, No. 20, and pl. 0, figs. 20, 21, 1860.
†*contaminatus* Provancher, Pet. Faune Ent. Can., iii, p. 121, 1887.
chagnoni Stevenson, Can. Ent., xxxv, p. 214, 1903.

a. var. **signifer** Reut.
Reuter, Neark. Caps., p. 42, 1909.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Brit. Col., Alaska.

Subgenus **Lygus** Hahn
Logotype *limbatus* (Fall.)

Reuter, Rev. Crit. Caps., i, p. 82; ii, p. 47, 1875.
Reuter, Hemip. Gymn. Eur., v, p. 364, 1896.

1015. **Lygus contaminatus** (Fall.)

Fallén, Hemip. Suec., Cimic., p. 79, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 151, fig. 76, 1831.
Zetterstedt, Ins. Lapp., column 272, 1840, *Phytocoris.*
Fieber, Europ. Hemip., p. 274, 1861.
Reuter, Rev. Crit. Caps., ii, p. 49, 1875.
Reuter, Genera Cimic. Eur., p. 17, 1875.
Uhler, Check List, p. 18, 1886.
Saunders, Heter. Brit. Isds., pp. 249, 250, 1892.
Reuter, Hemip. Gymn. Eur., v, pp. 112, 367, 1896.
Oshanin, Verz. Palae. Hemip., i, p. 716, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.
†*viridis* (Flor), Rhyn. Livl., i, p. 531, 1860, *Capsus* (part).
†*sulcifrons* Douglas and Scott, Brit. Hemip., p. 459, 1865.
Localities: Calif., Br. Am. (Palaearctic.)

1016. **Lygus lucorum** (Meyer)

Meyer, Verz. Schw. Rhyn., Caps., p. 46, pl. 6, fig. 2, 1843, *Capsus.*
Fieber, Europ. Hemip., p. 275, 1861.
Douglas and Scott, Brit. Hemip., p. 458, 1865.
Reuter, Rev. Crit. Caps., ii, p. 52, 1875.
Uhler, Check List, p. 18, 1886.
Saunders, Heter. Brit. Isds., pp. 249, 251, 1892.
Reuter, Hemip. Gymn. Eur., v, pp. 107, 366, pl. 5, fig. 3, 1896.
Oshanin, Verz. Palae. Hemip., i, p. 717, 1909.
†*contaminatus* (Kirschbaum), Rhyn. v. Wiesbd., Caps., p. 65, 1855, *Capsus.*
Flor, Rhyn. Livl., ii, p. 612, 1861, *Capsus.*
Thomson, Opusc. Ent., iv, p. 425, 1871, *Capsus.*
bipunctatus (Sahlberg), Monog. Geoc. Fenn., p. 101, 1848, *Capsus.*
Locality: "U. S." (Uhler).

1017. **Lygus viridis** (Fall.)

Fallén, Monog. Cimic. Suec., p. 85, 1807, *Lygacus.*
Fallén, Hemip. Suec., Cimic., p. 93, 1829, *Phytocoris.*
Sahlberg, Monog. Cimic. Fenn., p. 106, 1848, *Capsus.*
Baerensprung, Cat. Hemip. Europ., p. 15, 1860.
Flor, Rhyn. Livl., i, p. 531, 1861, *Capsus.*
Reuter, Rev. Crit. Caps., ii, p. 50, 1875.

Reuter, Genera Cimic. Eur., p. 17, 1875.
Reuter, Rev. Synon., p. 268, No. 243, 1888.
Saunders, Heter. Brit. Isds., pp. 249, 250, pl. 23, fig. 2, 1892.
Reuter, Hemip. Gymn. Eur., v, pp. 113, 367, 1896.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 42, 1909.
?fusco-maculatus (Goeze), Ent. Beytr., ii, p. 267, 1778, *Cimex.*
?viridescens Geoffroy *in* Fourcroy, Ent. Paris., p. 207, 1785, *Cimex.*
?obfuscatus (Gmelin), *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2185,
commutatus Fieber, Wien. Ent. Monats., ii, p. 231, 1858. [1788, *Cimex.*
Fieber, Europ. Hemip., p. 274, 1861.
†*contaminatus* Douglas and Scott, Brit. Hemip., p. 461, 1865.
†*sulcifrons* (Thomson), Opusc. Ent., iv, p. 425, 1871, *Capsus.*
Localities: N. H., Mass. (Palaearctic.)

1018. **Lygus belfragii** Reut.

Reuter, Caps. Am. Bor., p. 71, 1876.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.
Localities: Quebec, Ont., N. H., Mass., N. Y.

1019. **Lygus hirticulus** Van D.

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892 (MS name).
Slosson, Ent. News, xi, p. 323, 1900 (MS name, spelled *hirticoelus*).
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905 (MS name).
Van Duzee, Check List, p. 41, 1916 (n.n. for *tenellus* Van D.).
‖*tenellus* Uhler, Check List, p. 18, 1886 (MS name).
Atkinson, Cat. Caps., p. 91, 1888 (MS name).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909 (MS name).
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 484, 1912 (description).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Localities: Me., Mass., N. Y.

1020. **Lygus invitus** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 790; Comp. Writ., i, p.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328. [345, *Capsus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 407, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 121, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887; xxi, p. 3, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Riley, N. Am. Fauna, vii, p. 250, 1893.
Gillette and Baker, Hemip. Colo., p. 35, 1895.
Slosson, Ent. News, xiii, p. 8, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. Ent., p. 551, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.

Van Duzee, Can. Ent., xl, p. 113, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.
Parshley, Psyche, xxi, p. 141, 1914.
Knight, Jl. Econ. Ent., viii, p. 296, 1915.
Knight, Can. Ent., xlviii, p. 345, 1916.
†*lineolatus* (Emmons), Nat. Hist. N. Y. Ins., pl. 30, fig. 7, 1854, *Phytocoris.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ia., Kans., Ariz.

1020½. **Lygus communis** Knght.

Knight, Can. Ent., xlviii, p. 346, 1916.
Localities: Me., N. H., Vt., N. Y., Colo.

1021. **Lygus vitticollis** Reut.

Reuter, Caps. Am. Bor., p. 71, 1876.
Reuter, Neark. Caps., p. 43, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
monachus Uhler, Can. Ent., xviii, p. 208, 1886.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Slosson, Ent. News, xi, p. 323, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Localities: Ont., Mass., N. H., N. Y., N. J., Pa., Ia., Texas.

1022. **Lygus carolinae** Reut.

Reuter, Caps. Am. Bor., p. 71, 1876.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906.
Localities: Carolina, Texas.

1023. **Lygus fasciatus** Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 485, 1912.
Localities: Me., N. Y., S. C.

1024. **Lygus apicalis** Fieb.

Fieber, Eur. Hemip., p. 275, 1861.
Reuter, Hemip. Gymn. Eur., v, p. 110, pl. 5, fig. 1, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 43, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii. p. 501, 1914.

a. var. **prasinus** Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909.
Van Duzee, Can. Ent., xli, p. 127, 1909.

Reuter, Neark. Caps., p. 43, 1909.
inops Horvath, Rev. d'Ent., xiii, p. 190, 1894 (as var. of *apicalis*).
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907.
Localities: Ga., Fla., Texas. (West Indies, Europe.)

1025. **Lygus guttatipes** Uhl.

Uhler, Hemip. Colo., p. 35, 1895.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Locality: Colo.

1026. **Lygus olivaceus** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 6, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 31, 1907; ix, p. 179, 1909.
Van Duzee, Can. Ent., xli, p. 127, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Localities: Fla. (West Indies.)

1027. **Lygus sallei** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 321, 1862.
Uhler, Check List, p. 18, 1886.
Distant, Biol. Centr. Am., Heter., i, p. 273, pl. 23, figs. 2, 3, 1884; p. 433, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 259, 1894.
Gillette and Baker, Hemip. Colo., p. 36, 1895.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 170, 1909 (redescription).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.
Localities: Colo., Texas, N. Mex., Ariz., Calif. (Mexico.)

1028. **Lygus vividus** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 260, 1894.
Localities: Calif. (Mexico.)

1029. **Lygus approximatus** (Stål)

Stål, Stet. Ent. Zeit., xix, p. 185, 1858, *Deraeocoris*.
Reuter, Hemip. Gymn. Eur., v, p. 91, 1896.
Reuter, Neark. Caps., p. 43, 1909.
Localities: Ont., W. Va., Wyo., Alaska.

1030. **Lygus convexicollis** Reut.

Reuter, Caps. Am. Bor., p. 72, 1876.
Reuter, Neark. Caps., p. 43, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 37, 1912.
Locality: Calif.

1031. **Lygus pratensis** (Linn.)

Linnaeus, Syst. Nat., edn. 10, p. 448, 1758, *Cimex*.
Linnaeus, Fauna Suec., n. edn., p. 253, No. 949, 1761, *Cimex*.
Linnaeus, Syst. Nat., edn. 12, p. 728, 1767, *Cimex*.
Fabricius, Syst. Ent., p. 724, 1775, *Cimex*.
Fourcroy, Ent. Paris., p. 205, 1785, *Cimex*.
Fabricius, Ent. Syst., iv, p. 171, 1794, *Lygaeus*.
Walckenaer, Fauna Paris., ii, p. 347, 1802, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 234, 1803, *Lygaeus*.
Latreille, Hist. Nat. Crust. Ins., xii, p. 222, 1804, *Miris*.

Fallén, Monog. Cimic. Suec., p. 83, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris.*
Fallén, Hemip. Suec., Cimic., p. 90, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 217, fig. 112, 1831, *Phytocoris.*
Herrich-Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus.*
Burmeister, Handb. d. Ent., ii, p. 272, 1835, *Phytocoris.*
Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 138, 1840, *Phytocoris.*
Meyer, Verz. Schw. Rhyn., p. 99, 1843, *Capsus.*
Kolenati, Melet. Ent., ii, p. 119, 1845, *Phytocoris.*
Sahlberg, Geoc. Fenn., p. 111, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 64, 1855, *Capsus.*
Baerensprung, Cat. Hemip. Eur., p. 15, 1860.
Flor, Rhyng. Livl., i, p. 517, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 273, 1861.
Douglas and Scott, Brit. Hemip., p. 464, pl. 15, fig. 2, 1865.
Thomson, Opusc. Ent., iv, p. 424, 1871, *Capsus.*
Reuter, Rev. Crit. Caps., ii, p. 54, 1875.
Reuter, Genera Cimic. Eur., p. 18, 1875.
Reuter, Caps. Am. Bor., p. 72, 1876.
Saunders, Ins. Inj. to Fruits, p. 147, fig. 153, 1883.
Distant, Biol. Centr. Am., Heter., i, p. 272, pl. 23, figs. 4, 6, 7, 16, 1884.
Uhler, Check List, p. 18, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 119, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Reuter, Rev. Synon., p. 269, No. 244, 1888.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
Townsend, Can. Ent., xxiv, p. 193, 1892.
Harrington, Ottawa Nat., vi, p. 27, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893.
Riley, N. Am. Fauna, vii, p. 250, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 259, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Gillette and Baker, Hemip. Colo., p. 36, 1895.
Blatchley, Psyche, vii, p. 279, 1895.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 505, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1908.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, pp. 152, 179, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Van Duzee, Can. Ent., xl, p. 113, 1908; xli, p. 127, 1909.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 169, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Crosby and Leonard, Can. Ent., xlvi, p. 181, 1914 (egg parasite).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.

Essig, Inj. Ben. Ins. Calif., edn. 2, p. 211, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
unbellatarum Scopoli, Ent. Carn., p. 133, 1763, *Cimex.*
Panzer, Fauna Germ., xciii, fig. 19, 1805, *Lygaeus.*
?rubecula Goeze, Ent. Beytr., ii, p. 279, 1778, *Cimex.*
?viridulus Panzer, Schaef. Icon., p. 120, 1804, *Lygaeus.*
lineolaris Palisot–Beauvois, Ins. Rec. Af. Am., p. 187, 1805, *Capsus.*
Harris, Rept. Inj. Ins. Mass., p. 161, 1841, *Phytocoris.*
Harris, Treat. Ins. Inj. Veget., new edn., p. 200, 1862, *Phytocoris.*
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.
Walker, Cat. Heter., vi, p. 91, 1873, *Capsus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 407, 1878.
Popenoe, Trans. Kan. Acad. Sci., ix, p. 63, 1885. [1805, *Capsus.*
linearis (Palisot–Beauvois), Ins. Rec. Af. Am., pl. Hemip., No. 11, fig. 7,
Uhler, *in* Harris Rept. Inj. Ins. Mass., p. 161, note, 1841, *Phytocoris.*
Uhler *in* Harris, Treat. Ins. Inj. Veget., new edn., p. 200, note, 1862,
[*Phytocoris.*
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 313, 1864, *Phytocoris.*
oblineatus (Say), Heter. N. Harm., p. 21, 1832; Fitch reprint, p. 784;
[Compl. Writ., i, p. 340, *Capsus.*
Smith, Cat. Ins. N. J., edn. 2, p. 124, 1900.
[*diffusus* Uhler, MS], Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
[*redimitus* Uhler, MS], Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
flavonotatus (Provancher), Nat. Can., iv, p. 103, 1872, *Capsus.*
Uhler, Check List, p. 19, 1886, *Deraeocoris?*
Provancher, Pet. Faune Ent. Can., iii, p. 120, 1887.
Van Duzee, Can. Ent., xxi, p. 3, 1889.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
†*malinus* (Provancher), Pet. Faune Ent. Can., iii, p. 134, 1887, *Sthenarops.*
†*belfragei* Provancher, Pet. Faune Ent. Can., iii, p. 120, 1887.
§*flavomaculatus* Van Duzee, Can. Ent., xix, p. 71, 1887 (error for *flavo-*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894. [*notatus*).

var. **pubescens** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 37, 1912 (n.n. for
[*campestris* Fall.)
‖*campestris* Fallén, Monog. Cimic. Suec., p. 83, 1807, *Lygaeus.*
Zetterstedt, Fauna Lapp., p. 489, 1828, *Phytocoris.*
Fallén, Hemip. Suec., Cimic., p. 91, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 218, fig. 113, 1831, *Phytocoris.*
Herrich–Schaeffer, Nom. Ent., i, p. 51, 1835, *Capsus.*
Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris.*
Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Phytocoris.*
Kolenati, Melet. Ent., ii, p. 118, 1845, *Phytocoris.*
Sahlberg (F.), Geoc. Fenn., p. 111, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 65, 1855, *Capsus* (*Deraeocoris*).

Baerensprung, Cat. Hemip. Eur., p. 15, 1860.
Fieber, Eur. Hemip., p. 273, 1861.
Douglas and Scott, Brit. Hemip., p. 463, 1865.
Thomson, Opusc. Ent., iv, p. 424, 1871, *Capsus*.

var. **gemellatus** (H. S.)
Herrich–Schaeffer, Nom. Ent., i, p. 51, 1835, *Capsus*.
Herrich–Schaeffer, Wanz. Ins., iii, p. 84, 1835, *Capsus*.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 64, 1855, *Capsus* (*Deraccoris*).
Baerensprung, Cat. Hemip. Eur., p. 15, 1860.
Reuter, Rev. Crit. Caps., ii, p. 55, 1875.
Reuter, Hemip. Gymn. Eur., v, p. 99, 1896.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 35, 1912.
artemisiae (Schilling), Ber. Vat. Ges. Schles., p. 83, 1836, *Capsus*.
adspersus (Schilling), Ber. Vat. Ges. Schles., p. 83, 1836, *Capsus*.

var. **punctatus** Zett.
Zetterstedt, Ins. Lapp., column 273, 1840, *Phytocoris*.
Kolenati, Melet. Ent., ii, p. 118, 1845, *Phytocoris*.
Sahlberg (F.), Geoc. Fenn., p. 110, 1848, *Capsus*.
Thomson, Opusc. Ent., iv, p. 423, 1871, *Capsus*.
Reuter, Hemip. Gymn. Eur., v, p. 98, 1896.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 35, 1912.
alpina (Kolenati), Melet. Ent., ii, p. 120, 1845, *Phytocoris*.

var. **rutilans** Horv.
Horvath, Rev. d'Ent., vii, p. 181, 1888.
Reuter, Hemip. Gymn. Eur., v, p. 99, 1906.
fuscorubra Strobl, Mitth. Naturw. Ver. Steierm. xxvi, p. 193, 1900.
Localities: All the United States, Canada. (Palaearctic, Mex.)

1032. **Lygus elisus** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914 (as var. of [*pratensis*.
Locality: Calif.

1033. **Lygus annexus** Uhl.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.
Uhler, Wheeler's Surv. 100th Mer., v, p. 839, pl. 42, fig. 10, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876; iii, p. 415, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Gillette and Baker, Hemip. Colo., p. 35, 1895.
Locality: Colo.

1034. **Lygus(?) distanti** Atk.
Atkinson, Cat. Capsidae, p. 91, 1889 (n.n. for *scutellatus* Dist.).
Distant, Biol. Centr. Am., Heter., i, p. 434, 1893.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 152, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 60, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
[*scutellatus* Distant, Biol. Centr. Am., Heter., i, p. 274, pl. 23, figs. 9, 18, [1884.
Barber, Brookl. Inst., Sci. Bul., i, p. 279, 1906.
Snow, Trans. Kans. Acad. Sci., xx, pt. 2, p. 159, 1907.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 169, 1907.
Localities: Kans., Ariz., Texas. (Mexico.)

[**Lygus repletus** Uhler MS]
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.

[**Lygus intersectus** Uhler MS]
Van Duzee, Can. Ent., xxi, p. 3, 1889.

1035. **Lygus plagiatus** Uhl.
Uhler, Hemip. Colo., p. 35, 1895.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Osborn, Ohio Nat., i, p. 12, 1900.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: Mass., N. Y., D. C., Ohio, Kans., Colo., Calif.

[**Lygus ustulatus** Uhler MS]
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.

Subgenus **Orthops** Fieb.
Logotype *kalmi* (Linn.)

Fieber, Wien. Ent. Monat., ii, p. 311, 1858.
Fieber, Europ. Hemip., pp. 68, 278, 1861.
Douglas and Scott, Brit. Hemip., p. 451, 1865.
Thomson, Opusc. Ent., i, p. 426, 1871.
Reuter, Genera Cimic. Eur., p. 18, 1875.
Reuter, Rev. Crit. Caps., i, p. 82; ii, p. 57, 1875.
Reuter, Hemip. Gymn. Eur., v, p. 362, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906 (names *kalmi* type).

1036. **Lygus campestris** (Linn.)
Linnaeus, Syst. Nat., edn. 10, p. 1758, *Cimex.*
Linnaeus, Fauna Suec., edn. 2, p. 254, 1761, *Cimex.*
Linnaeus, Syst. Nat., edn. 12, i, p. 728, 1767, *Cimex.*
Fabricius, Ent. Syst., iv, p. 171, 1794, *Lygaeus.*
Reuter, Rev. Synon., p. 271, No. 245, 1888.
Reuter, Hemip. Gymn. Eur., v, p. 79, 1896.
Reuter, Neark. Caps., p. 44, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 37, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
transversalis (Fabricius), Mantissa Ins., p. 304, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 175, 1794, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 238, 1803, *Lygaeus.*
Reuter, Rev. Crit. Caps., ii, p. 59, 1875, *Orthops.*
Reuter, Genera Cimic Eur., p. 18, 1875.
pastinacae (Fallén), Monog. Cimic. Suec., p. 86, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 94, 1829, *Phytocoris.*
Stål, Stet. Ent. Zeit., xix, p. 186, 1858, *Deracocoris.*
Flor, Rhyng. Livl., i, p. 523, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 279, 1861, *Orthops.*
Douglas and Scott, Brit. Hemip., p. 455, pl. 15, fig. 8, 1865, *Orthops.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Orthops.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Orthops.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 727, 1909.

lucidus (Kirschbaum), Rhyng. v. Wiesbd., Caps., p. 131, 1855, *Capsus.*
§*transversus* (Thomson), Opusc. Ent., iv, p. 427, 1871, *Capsus.*
scutellatus (Uhler), Bul. U. S. Geol. Geog. Surv., iii, p. 420, 1877, *Orthops.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Orthops.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Orthops.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 261, 1894, *Orthops.*
Gillette and Baker, Hemip. Colo., p. 39, 1895, *Orthops.*
Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Orthops.*
Heidemann, Proc. Wash. Acad. Sci., ii, p. 505, 1900.
Slosson, Ent. News, xiii, p. 8, 1902, *Orthops.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Orthops.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Orthops.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Orthops.*
Localities: Quebec, Ont., N. H., N. Y., N. J., Colo., Wyo., Texas, Ariz., Calif., Alaska. (Europe.)

Subgenus **Agnocoris** Reut.
Haplotype *rubicundus* (Fall.)

Reuter, Genera Cimic. Eur., p. 19, 1875.
Reuter, Rev. Crit. Caps., i, p. 82, 1875 (as subgen. of *Cyphodema*).
Reuter, Rev. Crit. Caps., ii, p. 63, 1875 (as subgen. of *Cyphodema*).
Reuter, Hemip. Gymn. Eur., v, p. 362, 1896.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 139, 1906.

1037. **Lygus rubicundus** (Fall.)

Fallén, Hemip. Suec. Cimic., p. 92, 1829, *Phytocoris.*
Flor, Rhyng. Livl., i, p. 534, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 278, 1861, *Hadrodema.*
Reuter, Rev. Crit. Caps., ii, p. 63, 1875, *Cyphodema* (*Agnocoris*).
Reuter, Hemip. Gymn. Eur., v, pp. 72, 362, pl. 4, fig. 8, 1896.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 45, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 20, 1916.
†*rubricatus* Hahn, Wanz. Ins., i, p. 156, 1831.
pulverulenta (Uhler), Trans. Md. Acad. Sci., i, p. 183, 1892, *Hadrodema.*
Van Duzee, Can. Ent., xxi, p. 3, 1889, *Hadrodema* (a MS name).
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Hadrodema.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 374, 1893, *Hadrodema.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Hadrodema.*
Gillette and Baker, Hemip. Colo., p. 32, 1895, *Hadrodema.*
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Hadrodema.*
Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900, *Hadrodema.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 357, 1904, *Hadrodema.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Hadrodema.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Localities: Ont., Mass., Conn., N. Y., N. J., Pa., Md., D. C., Va., Ga., N. C., Wis., Ind., Ill., Ia., Kans., Colo., Utah, N. Mex., Texas, Manitoba, Calif. (Europe.)

1038. **Lygus distinguendus** Reut.

Reuter, Pet. Nouv. Ent., i, p. 541, 1875.
Reuter, Hemip. Gymn. Eur., v, p. 74, 1896.

Reuter, Ann. Mus. Zool. Acad. Sci. St. Pet., x, p. 47, 1906.
Reuter, Neark. Caps., p. 45, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914.
guttulosus Uhler MS, Reuter, Neark. Caps., p. 45, 1909.
Localities: Brit. Col., N. Mex., Calif. (Siberia.)

1038¼. **Lygus nubilus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 20, 1914 (as var. of [*distinguendus*).

Locality: Calif.

Genus **Tropidosteptes** Uhl.
Haplotype *cardinalis* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 404, 1878.
Reuter, Neark. Caps., pp. 12, 48, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1039. **Tropidosteptes cardinalis** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 404, 1878.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Reuter, Neark. Caps., p. 50, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914.
Leonard, Psyche, xxiii, p. 1, 1916 (life history).
Localities: Mass., Conn., N. Y., N. J., Pa., Ill., Fla.

1040. **Tropidosteptes imperialis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912.
Locality: Texas.

Genus **Neoborus** Dist.
Logotype *saxeus* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 276, 1884.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1041. **Neoborus amoenus** (Reut.)

Reuter, Neark. Caps., p. 48, 1909, *Tropidosteptes*.
Dickerson and Weiss, Jl. N. Y. Ent. Soc., xxiv, p. 302, 1916.
†*saxeus* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 264, 1894.
Slosson, Ent. News, xi, p. 323, 1900.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
Moore, Can. Ent., xxxix, p. 163, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910, *Tropidosteptes*.

var. **amoenus** (Reut.)
Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.

a. var. **palmeri** Reut.
Reuter, Can. Ent., xl, p. 112, 1908.
Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes*.
Van Duzee, Ottawa Nat., xxvi, p. 70, 1912, *Tropidosteptes*.
†*scutellatus* Provancher, Pet. Faune Ent. Can., iii, p. 124, 1887, *Orthops*.

b. var. **plagiata** (Reut.)
Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes.*

c. var. **signata** (Reut.)
Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes.*

d. var. **scutellaris** (Reut.)
Reuter, Neark. Caps., p. 49, 1909, *Tropidosteptes.*
Localities: Quebec, Ont., N. Y., N. J., Pa., Md., D. C., Kans., Ohio.

1042. **Neoborus geminus** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 788; Compl. Writ., i, p. [[344, *Capsus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912, *Tropidosteptes.*
Localities: N. Y., Ind.

1043. **Neoborus tricolor** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 487, 1912, *Tropidosteptes.*
Locality: N. J.

1044. **Neoborus pettiti** (Reut.)

Reuter, Neark. Caps., p. 50, 1909, *Tropidosteptes.*
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910, *Tropidosteptes.*
Parshley, Psyche, xxi, p. 141, 1914.
†*punctulata* (Provancher), Pet. Faune Ent. Can., iii, p. 133, 1887, *Trichia.*
[*pettiti* Uhl. MS], Van Duzee, Can. Ent., xxi, p. 4, 1889.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Ia., Kans.

1045. **Neoborus canadensis** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, 486, 1912, *Tropidosteptes*
Van Duzee, Ottawa Nat., xxvi, p. 68, 1912, *Tropidosteptes.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: Quebec, Ont., Calif.

Genus **Xenoborus** Reut.
Haplotype *commissuralis* Reut.

Reuter, Can. Ent., xl, p. 112, 1908 (as subgenus of *Neoborus*).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 208, 1916.

1046. **Xenoborus commissuralis** Reut.

Reuter, Can. Ent., xl, p. 112, 1908.
Reuter, Neark. Caps., p. 51, 1909, *Tropidosteptes.*
†*chloris* Provancher, Pet. Faune Ent. Can., iii, p. 134, 1887, *Sthenarops.*
[*lactus* Uhl. MS], Osborn, Ohio Nat., i, p. 12, 1900, *Neoborus.*
Localities: Quebec, Ont., N. Y.

1047. **Xenoborus plagifer** (Reut.)

Reuter, Neark. Caps., p. 51, 1909, *Tropidosteptes,*
Locality: Ont.

Genus **Neoborops** Uhl.
Haplotype *vigilax* Uhl.

Uhler, Hemip. Colo., p. 36, 1895.

1048. **Neoborops vigilax** Uhl.

Uhler, Hemip. Colo., p. 36, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904.
Localities: Colo., Ariz.(?), Pa. (Wirtner).

DIVISION *DERAEOCORARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 29, 445, 1865, family *Deracocoridae.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 206, 208, 1916.

Genus **Cimatlan** Dist.
Haplotype *delicatum* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 281, 1884.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.
Eustictus Reuter, Neark. Caps., p. 35, 1909.

1049. **Cimatlan delicatum** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 281, pl. 27, fig. 15, 1884.
Localities: Ariz. (Guatemala.)

1050. **Cimatlan venatorium** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 479, 1912, *Eustictus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus.*
Localities: N. Y., Fla.

1051. **Cimatlan catulum** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 257, 1894, *Megacoelum.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Megacoelum.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, 152, 1906, *Megacoelum.*
Reuter, Neark. Caps., p. 86, 1909, *Eustictus.*
Localities: N. Y., Kans., Texas.

1052. **Cimatlan mundum** (Uhl.)

Uhler, Ent. Am., iii, p. 71, 1887, *Megacoelum.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909, *Eustictus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus.*
Localities: Fla., Ga.

1053. **Cimatlan pusillum** (Uhl.)

Uhler, Ent. Am., iii, p. 71, 1887, *Megacoelum.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Megacoelum.*
Reuter, Neark. Caps., p. 86, 1909, *Eustictus.*
Localities: Colo., Texas.

1054. **Cimatlan grossum** (Uhl.)

Uhler, Check List, p. 18, 1886, *Megacoelum* (a MS name).
Uhler, Ent. Am., iii, p. 70, 1887, *Megacoelum.*
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892, *Megacoelum.*
Reuter, Neark. Caps., p. 35, 1909, *Eustictus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 179, 1909, *Eustictus.*
Smith, Cat. Ins. N. J., edn. 3, p. 163, 1910, *Eustictus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 501, 1914, *Eustictus.*
Localities: Mass., N. Y., N. J., Pa., Md., D. C., Fla.

Genus **Diplozona** Van D.
Orthotype *collaris* Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 112, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1055. **Diplozona collaris** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 114, 1915.
Locality: Fla.

Genus **Eurychilopterella** Reut.
Haplotype *luridula* Reut.

Reuter, Neark. Caps., p. 59, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1915.

1056. **Eurychilopterella luridula** Reut.

Reuter, Neark. Caps., p. 60, 1909.
Heidemann, Proc. Ent. Soc. Wash., xii, p. 46, 1910.
Localities: N. Y., D. C.

Genus **Klopicoris** Van D.
Orthotype *phorodendronae* (Van D.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 115, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1057. **Klopicoris phorodendronae** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 22, 1914, *Camptobrochis.*
Locality: Calif.

Genus **Camptobrochys** Fieb.
Logotype *punctulatus* (Fall.)

Fieber, Wien. Ent. Monat., ii, p. 304, 1858.
Fieber, Europ. Hemip., p. 64, 1860.
Walker, Cat. Heter., vi, p. 42, 1873.
‡*Camptobrochis* Fieber, Europ. Hemip., p. 248, 1861.
Douglas and Scott, Brit. Hemip., p. 447, 1865.
Thomson, Opusc. Ent., iv, p. 427, 1871.
Reuter, Genera Cimic. Eur., p. 20, 1875.
Reuter, Rev. Crit. Caps., i, p. 83; ii, p. 68, 1875.
Provancher, Pet. Faune Ent. Can., iii, p. 115, 1887.
Reuter, Hemip. Gymn. Eur., v, pp. 37, 348, 1896.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 460, 1904 (names *punctulatus*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 140, 1906. [Fall. type).
Reuter, Neark. Caps., p. 52, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

Subgenus **Camptobrochys** Fieb.

Reuter, Neark. Caps., p. 54, 1909 (No. 16 in key; no name used).

1058. **Camptobrochys nebulosus** Uhl.

Uhler, Hayden's Surv. Terr. for 1871, p. 417, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 408, 1878.
Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885.
Provancher, Pet. Faune Ent. Can., iii, p. 116, 1887.
Van Duzee, Can. Ent., xix, p. 71, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892; pt. 4, p. 123, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 265, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
Slosson, Ent. News, vi, p. 321, 1895.
Gillette and Baker, Hemip. Colo., p. 38, 1895.
Osborn, Ohio Nat., i, p. 12, 1900.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Reuter, Neark. Caps., p. 59, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., D. C., Fla., Ohio, Kans., Ia., Colo., N. Mex., Ariz., Calif., Wash., B. C.

1059. **Camptobrochys strigulatus** (Walk.)

Walker, Cat. Heter., vi, p. 94, 1873, *Capsus*.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 111, 1904.

Locality: Canada.

1060. **Camptobrochys validus** Reut.

Reuter, Neark. Caps., p. 58, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 22, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.

a. var. **cunealis** Reut.

Reuter, Neark. Caps., p. 59, 1909.

Localities: Mass., Pa., D. C., Ia., Colo., Nev., N. Mex., Calif.

1061. **Camptobrochys brevis** Uhl.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Reuter, Neark. Caps., p. 59, 1909.

Localities: N. Mex., Utah, Nev.

1062. **Camptobrochys robustus** Uhl.

Uhler, Hemip. Colo., p. 39, 1895.

Locality: Colo.

Subgenus **Callicapsus** Reut.
Haplotype *histrio* Reut.

Reuter, Caps. Am. Bor., p. 75, 1876.
Reuter, Neark. Caps., p. 54, 1909. (No. 15 in key; no name used.)

1063. **Camptobrochys histrio** Reut.

Reuter, Caps. Am. Bor., p. 75, 1876, *Callicapsus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Callicapsus.*
Blatchley, Psyche, vii, p. 279, 1895, *Callicapsus.*
Wirtner, Ann. Carn. Mus., iii, p. 197, 1904, *Callicapsus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1909, *Callicapsus.*
Reuter, Neark. Caps., p. 58, 1909.
Localities: Pa., "Carolina," Ind., Ia., Kans., Texas, Calif.

Subgenus **Mycterocoris** Uhl.
Haplotype *cerachates* (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 358, 1904 (as genus).
Reuter, Neark. Caps., p. 53, 1909. (No. 12 in key; no name used.)

1064. **Camptobrochys cerachates** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 265, 1894, *Deraeocoris.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 358, 1904, *Mycterocoris.*
Reuter, Neark. Caps., p. 57, 1909.
Localities: Colo., N. Mex., Calif.

1065. **Camptobrochys schwarzii** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 375, 1893.
Reuter, Neark. Caps., p. 58, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.
Localities: N. Mex., Utah, Calif., Wash., B. C.

1066. **Camptobrochys fulgidus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.
Locality: Calif.

Subgenus **Euarmosus** Reut.
Haplotype *sayi* Reut.

Reuter, Caps. Am. Bor., p. 76, 1876 (as genus).
Reuter, Neark. Caps., p. 52, 1909.

1067. **Camptobrochys sayi** Reut.

Reuter, Caps. Am. Bor., p. 76, 1876, *Euarmosus.*
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Euarmosus.*
Reuter, Neark. Caps., p. 55, 1909.
Localities: Pa., Texas, Colo., Calif.

1068. **Camptobrochys nigritus** Reut.

Reuter, Neark. Caps., p. 55, 1909.
Localities: D. C., Md., Ga.

1069. **Camptobrochys fulvescens** Reut.

Reuter, Neark. Caps., p. 56, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 21, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Localities: Colo., Calif.

1070. **Camptobrochys grandis** Uhl.

Uhler, Ent. Am., ii, p. 230, 1887.
Provancher, Pet. Faune Ent. Can., iii, p. 116, 1887.

Van Duzee, Can. Ent., xxi, p. 4, 1889.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 359, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 194, 1904.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Reuter, Neark. Caps., p. 56, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 164, 1910.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Ohio, Md., Mo., Kans., Ia., Colo., N. Mex., B. C.

a. var. **nitens** Reut.
Reuter, Neark. Caps., p. 56, 1909.
Parshley, Psyche, xxi, p. 142, 1914.
Van Duzee, Check List Hemip., p. 41, 1916 (as variety).
Localities: Ont., Mass., N. Y., D. C., Colo.

Genus **Deraeocoris** Kirschb.
Logotype *olivaceus* (Fabr.)

Kirschbaum, Rhyng. v. Wiesbd., Caps., pp. 31, 48, 1855.
Stål, Hemip. Afr., iii, p. 20, 1865.
Stål, Hemip. Fabr., i, p. 87, 1868.
Reuter, Genera Cimic. Eur., p. 21, 1875.
Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 71, 1875.
Atkinson, Cat. Capsidae, p. 98, 1889.
Hüeber, Synop. deut. Blindw., i, pp. 80, 378, 1894.
Reuter, Hemip. Gymn. Eur., v, pp. 18, 348, 1896.
Distant, Fauna Brit. Ind., ii, p. 465, 1904 (names *olivaceus* Fabr. type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 141, 1906 (names *medius* Kirschb.
Oshanin, Verz. Palae. Hemip., i, p. 748, 1909. [type).
Oshanin, Kat. Palae. Hemip., p. 67, 1912 (names *ruber* Linn. pseudotype).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.
†*Capsus* Fieber, Wien. Ent. Monat., ii, p. 307, 1858.
Fieber, Europ. Hemip., p. 264, 1861.
Douglas and Scott, Brit. Hemip., p. 441, 1865. [*brachialis* Stål).
Macrocapsus Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 55, 1879 (type

1071. **Deraeocoris ruber** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 446, 1758; edn. 12, i, p. 723, 1767, *Cimex.*
Goeze, Ent. Beytr., ii, p. 204, 1778, *Cimex.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 755, 1910.
Oshanin, Kat. Palae. Hemip., p. 67, 1912.
Cimex No. 17, Geoffroy, Hist. Abrég. des Ins., i, p. 444, 1762.
Cimex No. 50, Geoffroy, Hist. Abrég. des Ins., i, p. 459, 1762.
‖*gothicus* Scopoli, Ent. Carn., p. 131, 1763, *Cimex.*
Schrank, Enum. Ins. Austr., p. 283, 1781, *Cimex.*
Rossi, Fauna Etrusc., ii, p. 249, 1790, *Cimex.*

lanarius Linneaus, Syst. Nat., edn. 12, p. 726, 1767, *Cimex*.
Reuter, Rev. Crit. Caps., ii, p. 72, 1875.
Saunders, Heter. Brit. Isds., p. 260, 1892, *Capsus*.
Puton, Cat. Hémip. Palae., edn. 3, p. 51, 1886, *Capsus*.
capillaris Fabricius, Syst. Ent., p. 725, 1775, *Cimex*.
Fabricius, Mantissa Ins., ii, p. 305, 1787, *Cimex*.
Fabricius, Ent. Syst., iv, p. 180, 1794, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 244, 1803, *Capsus*.
Latreille, Hist. Nat. Crust. Ins., xii, p. 232, 1804, *Capsus*.
Burmeister, Handb. d. Ent., ii, p. 274, 1835, *Capsus*.
Blanchard, Hist. des Ins., Hémip., p. 139, 1840, *Phytocoris*.
Amyot and Serville, Hémip., p. 281, 1843, *Capsus*.
Costa, Cimic. Reg. Neap., Cent., iii, p. 44, 1852, *Capsus*.
Fieber, Europ. Hemip., p. 266, 1861, *Capsus*.
Douglas and Scott, Brit. Hemip., p. 442, pl. 14, fig. 8, 1865, *Capsus*.
Stål, Hemip. Fabr., i, p. 87, 1863.
Thomson, Opusc. Ent., iv, p. 430, 1871.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 408, 1878, *Capsus*.
Uhler, Check List, p. 19, 1886, *Capsus*.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
cimbricus Muller, Zool. Danicae Prodr., p. 106, 1776, *Cimex*.
Goeze, Ent. Beytr., ii, p. 252, 1778, *Cimex*.
croceus Goeze, Ent. Beytr., ii, p. 265, 1778, *Cimex*.
Geoffroy *in* Fourcroy, Ent. Paris., p. 200, 1785, *Cimex*.
rubro-acuminatus Goeze, Ent. Beytr., ii, p. 268, 1778, *Cimex*.
?luteus Goeze, Ent. Beytr., ii, p. 278, 1778, *Cimex*.
biguttatus Goeze, Ent. Beytr., ii, p. 278, 1778, *Cimex*.
rubens Harris, Expos. Eng. Ins., p. 90, pl. 26, fig. 10, 1781, *Cimex*.
melinus Harris, Expos. Eng. Ins., p. 90, pl. 26, fig. 11, 1781, *Cimex*.
flammeus Geoffroy *in* Fourcroy, Ent. Paris., p. 210, 1785, *Cimex*.
rufescens Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2160, 1788, *Cimex*.
?fuliginosus Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2164, 1788, *Cimex*.
?chrysocephalus Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2164, 1788, [*Cimex*.
haematocephalus Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2166, 1788, [*Cimex*.
haematostictos Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2181, 1788, [*Cimex*.
adustus Gmelin *in* Linnaeus, Syst. Nat., edn. 13, iv, p. 2185, 1788, *Cimex*.
bimaculatus Schrank, Fauna Boica, p. 88, 1801, *Cimex*.
olivaceus Schrank, Fauna Boica, p. 89, 1801, *Cimex*. [p. 674, 1806, *Cimex*.
‡*daniae* Turton *in* Linnaeus, Syst. Nat., Eng. transl. of Gmelin edn., ii,
geniculatus Turton *in* Linnaeus, Syst. Nat., Eng. transl. of Gmelin edn., [ii, p. 687, 1806, *Cimex*.
†*segusinus* Reuter, Rev. Synon., p. 279, No. 254, 1888.
Reuter, Hemip. Gymn. Eur., v, pp. 32, 352, 1896.

a. var. **danicus** Fabr.
Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygaeus*.
Wolff, Icon. Cimic., i, p. 34, 1800, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 245, 1803, *Capsus*.
Fallén, Monog. Cimic. Suec., p. 93, 1807, *Lygaeus*.

Fallén, Hemip. Suec. Cimic., p. 109, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 17, fig. 9, 1831, *Capsus.*

b. var. **segusinus** Muller
Muller, Manip. Ins. Taur., p. 191, 1766, *Cimex.*
tricolor Fabricius, Mantissa Ins., p. 306, 1787, *Cimex.*
Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygaeus.*
Wolff, Icon. Cimic., i, p. 35, fig. 35, 1800, *Lygaeus.*
Fabricius, Syst. Rhyng., p. 245, 1803, *Capsus.*
Panzer, Fauna Germ., fasic. xciii, fig. 20, 1804, *Capsus.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 233, 1804, *Capsus.*
Dufour, Recher. Anat. Hémip., p. 176, 1833, *Capsus.*
Herrich–Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus.*
Spinola, Essai sur les Hémip., p. 190, 1837 (1840), *Capsus.*
Meyer–Duer, Verz. Schw. Rhyn., p. 108, 1843, *Capsus.*
Kirschbaum, Rhyng. v. Wiesbd., Caps., p. 52, 1855, *Capsus* (*Deraeo-*
Flor, Rhyng. Livl., i, p. 509, 1860, *Capsus.* [*coris*).

c. var. **concolor** Reut.
Reuter, Hemip. Gymn. Eur., v, p. 34, 1896.
Localities: N. Y., Pa. (Europe, S. Am.)

1071¼. **Deraeocoris ingens** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 237, 1916.
Locality: Calif.

1071½. **Deraeocoris fraternus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 238, 1916.
Locality: Calif.

Subfamily **BRYOCORINAE** (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 28, 276, 1865, Fam. *Bryocorinae.*
Reuter, Rev. Crit. Caps., i, p. 76; ii, p. 79, 1875, Div. *Bryocoraria.*
Reuter, Genera Cimic. Eur., p. 6, 1875, Div. *Bryocoraria.*
Distant, Biol. Centr. Am., Heter., i, p. 283, 1884, Div. *Bryocoraria.*
Puton, Cat. Hemip. Palae., edn. 3, p. 46, 1886, *Bryocoraria.*
Uhler, Check List, p. 19, 1886, *Bryocoraria.*
Provancher, Pet. Faune Ent. Can., iii, pp. 98, 129, 1887, *Bryocorides.*
Atkinson, Cat. Capsidae, p. 40, 1889, Div. *Bryocoraria.*
Reuter, Ann. Soc. Ent. Fr., lxi, p. 393, 1892, Div. *Bryocoraria.*
Hüeber, Synop. deut. Blindw., i, pp. 17, 72, 1894, *Bryocoraria.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 471, 1904, Div. *Bryocoraria.*
Reuter, Festsch. f. Palmen, i, pp. 24, 29, 1905, Div. *Bryocoraria.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906, Tribe *Bryocorini.*
Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe *Bryocorini.*
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 33, 1907, Div. *Bryocoraria.*
Oshanin, Verz. Palae. Hemip., i, p. 645, 1909, Div. *Bryocoraria.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 121, 152, 1910.
Oshanin, Kat. Palae. Hemip., p. 70, 1912 (Tribe). [Tribe *Bryocorini.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 209, 1916,

TRIBE *PYCNODERINI* (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Pycnoderaria.*

Genus **Cyrtocapsus** Reut.
Haplotype *caligineus* Stål

Reuter, Caps. Am. Bor., p. 78, 1876.
Reuter, Ann. Soc. Ent. Fr., lxi, p. 393, 1892.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [Dist.).
Pirithous Distant, Biol. Centr. Am., Heter., i, p. 302, 1884 (type *pallipes*

1072. **Cyrtocapsus caligineus** (Stål)

Stål, Freg. Eug. Resa, Ins., p. 258, 1859, *Capsus.*
Reuter, Caps. Am. Bor., p. 79, 1876.
Distant, Biol. Centr. Am., Heter., i, p. 450, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 32, 1907; ix, p. 178, 1909.
pallipes (Distant), Biol. Centr. Am., Heter., i, p. 302, pl. 29, fig. 11, 1884,
Localities: Fla., Calif. (West Indies, Mexico.) [*Perithous.*

Genus **Halticotoma** Reut.
Haplotype *valida* Reut.

Reuter, Ann. Soc. Ent. Belg., lvii, p. 278, 1913.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1073. **Halticotoma valida** Reut.

Townsend, Can. Ent., xxiv, p. 194, 1892 (a MS name).
Reuter, Ann. Soc. Ent. Belg., lvii, p. 279, 1913 (described).
luteiceps (Hunter and Pratt), U. S. Dept. Agr., Div. Ent., Bul. n.s. 113, [p. 36, 1912, *Sixeonotus.*

Localities: N. Mex., Ariz., Texas.

Genus **Sixeonotus** Reut.
Haplotype *insignis* Reut.

Reuter, Caps. Am. Bor., p. 77, 1875.
Uhler, Ent. Am., iii, p. 149, 1887.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 157, 1907 (description).
Reuter, Neark. Caps., p. 3, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1074. **Sixeonotus insignis** Reut.

Reuter, Caps. Am. Bor., p. 78, 1876.
Gillette and Baker, Hemip. Colo., p. 40, 1895, *Pycnoderes.*
Smith, Cat. Ins. N. J., edn. 2, p. 131, 1900, *Eccritotarsus.*
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904, *Pycnoderes.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905, *Pycnoderes.*
Slosson, Ent. News, xvii, p. 326, 1906, *Pycnoderes.*
Snow, Trans. Kans. Acad. Sci., i, pt. 1, pp. 152, 179, 1906, *Pycnoderes.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909, *Pycnoderes.*
Reuter, Neark. Caps., p. 3, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: N. H., N. Y., N. J., Md., Pa., Fla., Texas.

1075. **Sixeonotus tenebrosus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 441, 1893, *Eccritotarsus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 178, 1909.
Reuter, Neark. Caps., p. 3, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Md., Kans., Fla. (Central America.)

1076. **Sixeonotus luteiceps** Reut.

Reuter, Neark. Caps., p. 4, 1909.
Reuter, Ann. Soc. Ent. Belg., lvii, p. 278, 1913 (notice).

?1077. **Sixeonotus scabrosus** (Uhl.)

Uhler, Hemip. Colo., p. 40, 1895, *Eccritotarsus.*
Van Duzee, Check List Hemip., p. 41, 1916, *Eccritotarsus.*
Locality: Colo.
[This cannot be an *Eccritotarsus.*]

Genus **Pycnoderes** Guer.
Haplotype *quadrimaculatus* Guer.

Guerin *in* La Sagra, Hist. de Cuba, vii, p. 168, 1857.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 41, 1907 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916. [Dist.).
Physetonotus Reuter, Ann. Soc. Ent. Fr., lxi, p. 394, 1892 (type *atratus*
Orinonotus Reuter, Ann. Soc. Ent. Fr., lxi, p. 395, 1892 (type *incurvus* Dist.).
Arsinotus Berg, Ann. Soc. Sci. Arg., xxxiv, p. 198, 1892 (type *albipes*
[Berg).

1078. **Pycnoderes quadrimaculatus** Guer.

Guerin *in* La Sagra, Hist. de Cuba, vii, p. 169, pl. 13, fig. 12, 1857.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 149, 1907.
Reuter, Neark. Caps., p. 2, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: N. H., Mass., Fla., Texas, Ariz., Calif. (Mexico, West Indies.)

1079. **Pynoderes dilatatus** Reut.

Reuter, Neark. Caps., p. 3, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Localities: N. J., Md., D. C.

1080. **Pycnoderes atratus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 285, pl. 26, fig. 20, 1884, *Eccritotarsus.*
Distant, Biol. Centr. Am., Heter., i, p. 441, 1893, *Eccritotarsus.*
Reuter, Ann. Soc. Ent. Fr., lxi, p. 395, 1892, *Physetonotus.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193, *Eccritotarsus.*
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 160, 1907.
Localities: Texas, Calif. (Central America.)

1081. **Pycnoderes incurvus** (Dist.)

Distant, Biol. Centr. Am., Heter., i, p. 285, pl. 26, fig. 19, 1884, *Eccritotarsus.*
Distant, Biol. Centr. Am., Heter., i, p. 440, 1893, *Eccritotarsus.*
Reuter, Ann. Soc. Ent. Fr., lxi, p. 396, 1892, *Orinonotus.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193, *Eccritotarsus.*
Reuter, Ann. k. k. Hofms. Wien, xxii, p. 160, 1907.
Localities: "S. St." (Guatemala.)

TRIBE *BRYOCORINI* (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Bryocoraria*.

Genus **Monalocoris** Dahlb.
Haplotype *filicis* Linn.

Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 209, 1851.
Kirschbaum, Rhyng. v. Wiesbd., Caps., p. 31, 1855.
Fieber, Wien. Ent. Monat., ii, p. 300, 1858.
Fieber, Europ. Hemip., pp. 61, 237, 1861.
Douglas and Scott, Brit. Hemip., p. 278, 1865.
Walker, Cat. Heter., vi, pp. 40, 159, 1873.
Reuter, Genera Cimic. Eur., p. 22, 1875.
Reuter, Rev. Crit. Caps., i, p. 84; ii, p. 79, 1875.
Provancher, Pet. Faune Ent. Can., iii, p. 129, 1887.
Hüeber, Synop. deut. Blindw., i, pp. 17, 72, 1894.
Reuter, Ann. k. k. Nat. Hofm. Wien, xxii, p. 161, 1907 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1082. **Monalocoris filicis** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 443, 1758; edn. 12, i, p. 718, 1767, *Cimex*.
Wolff, Icon. Cimic., ii, p. 46, fig. 43, 1801, *Acanthia*.
Fallén, Monog. Cimic. Suec., p. 92, 1807, *Lygaeus*.
Fallén, Hemip. Suec., Cimic., p. 108, 1829, *Phytocoris*.
Hahn, Wanz. Ins., ii, p. 86, fig. 172, 1834, *Phytocoris*.
Herrich–Schaeffer, Nomen. Ent., i, p. 51, 1835, *Capsus*.
Meyer–Duer, Verz. Schw. Rhyng., p. 71, 1843, *Capsus*.
Kolenati, Melet. Ent., ii, p. 129, 1845, *Bryocoris*.
Sahlberg, Monog. Geoc. Fenn., p. 113, 1848, *Capsus*.
Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 209, 1851.
Kirschbaum, Rhyng. v. Weisbd., Caps., p. 70, 1855, *Capsus*.
Flor, Rhyng. Livl., i, p. 539, 1850, *Capsus*.
Fieber, Europ. Hemip., p. 238, 1861.
Douglas and Scott, Brit. Hemip., p. 279, pl. 10, fig. 2, 1865.
Thomson, Opusc. Ent., iv, p. 433, 1871, *Bryocoris*.
Reuter, Rev. Crit. Caps., ii, p. 79, 1875.
Reuter, Caps. Am. Bor., p. 76, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876; iii, p. 413, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 130, 1887.
Uhler, Ent. Am., iii, p. 150, 1887.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Reuter, Rev. Synon., p. 284, No. 256, 1888.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Saunders, Heter. Brit. Isds., p. 130, 1892.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Hüeber, Synop. deut. Blindw., i, p. 73, 1894.
Slosson, Ent. News, v, p. 5, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1908.

Moore, Can. Ent., xxxix, p. 163, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Van Duzee, Can. Ent., xl, p. 112, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 177, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Parshley, Psyche, xxi, p. 142, 1914.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Fla., Wis., B. A. (Europe, Mexico.)

TRIBE *ECCRITOTARSINI* (Berg)

Berg, Hemip. Arg., Add., p. 81, 1884, Div. *Eccritotasaria* Reut. *in litt.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 123, 1910, Div. *Eccritotarsaria.*

Genus **Sysinas** Dist.
Logotype *audens* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 248, 1883.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 36, 1907 (redescribed).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1083. **Sysinas linearis** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 248, pl. 23, fig. 21, 1883.
Banks, Cat. Nearc. Hemip., p. 38, 1910.
Localities: "N. Y." (Banks). (Mexico.)

Genus **Dacota** Uhl.
Haplotype *hesperia* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 413, 1872.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 162, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1084. **Dacota hesperia** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 414, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 318, 1876.
Localities: Dak., Colo.

Genus **Caulotops** Bergr.
Haplotype *puncticollis* Bergr.

Bergroth, Wien. Ent. Zeit., xvii, p. 33, 1898.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 154, 1907 (description).
Reuter, Neark. Caps., p. 2, 1909 (correction).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 209, 1916.

1085. **Caulotops agavis** Reut.

Reuter, Neark. Caps., p. 1, 1909.
Locality: Ariz.
(*Tenthecoris bicolor* Scott, see additions at end of volume.)

Genus **Hesperolabops** Kirk.
Haplotype *gelastops* Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 249.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 131, 1906.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 151, 1907 (redescribed).

1086. **Hesperolabops gelastops** Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 250, pl. 5, fig. 2.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 152, 1907 (redescribed).
[*picta* Uhl. MS] in lit.
Localities: Texas. (Mexico.)

Subfamily CLIVINEMINAE (Reut.)

Reuter, Caps. Am. Bor., p. 62, 1875, Div. *Clivinemaria.*
Reuter, Festsch. f. Palmen, i, p. 23, 1905, Div. *Clivinemaria.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 135, 1906, Tribe *Clivinemini.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 210, 1916.
Bothriomirini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906, Tribe.
Ambraciini Kirkaldy, Can. Ent., xxxviii, p. 372, 1906, Tribe.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 124, 154, 1910, [Subfam. *Ambraciina* and Div. *Ambraciaria.*

Genus **Clivinema** Reut.
Haplotype *villosa* Reut.

Reuter, Caps. Am. Bor., p. 63, 1876.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1087. **Clivinema villosa** Reut.

Reuter, Caps. Am. Bor., p. 63, 1876.
Uhler, Proc. Ent. Soc. Wash., ii, p. 372, 1893.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Barber, Brookl. Ins. Sci. Bul., i, p. 278, 1906.
Localities: Colo., Utah, Texas, Ariz.

1087½. **Clivinema regalis** Kngt.

Knight, Ent. News, xxviii, p. 5, 1917.
Locality: Texas.

Genus **Largidea** Van D.
Orthotype *marginata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 480, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1088. **Largidea rubida** (Uhl.)

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904, *Clivinema.*
Van Duzee, Check List Hemip., p. 42, 1916.
Locality: N. Mex.

1089. **Largidea marginata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 481, 1912.
Locality: Colo.
[Not *rubida* Uhler.]

1089½. **Largidea grossa** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 238, 1916.
Locality: Calif.

1089¾. **Largidea davisi** Kngt.

Knight, Ent. News, xxviii, p. 7, 1917.
Locality: N. Y.

Subfamily CYLAPINAE (Popp.)

Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 1, 1909, *Cylapina.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 125, 1910, *Cylapina.*

TRIBE *CYLAPINI* (Kirk.)

Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903, Div. *Cylaparia* (part).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 433, 1904, Div. *Cylaparia.*
Reuter, Festsch. f. Palmen, i, pp. 19, 28, 1905, Div. *Cylaparia.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 134, 1906.
Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Cylapini.*
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 1, 1909, Div. *Cylaparia.*
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 76, 1907, Div. *Cylaparia.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 127, 1910, Div. *Cylaparia.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.
Valdasaria Distant, Biol. Centr. Am., Heter., i, p. 242, 1883 (division).

Genus **Cylapus** Say
Logotype *tenuicornis* Say

Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 791; Compl. Writ., i,
Distant, Biol. Centr. Am., Heter., i, p. 419, 1893. [p. 347.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 134, 1906.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 76, 1907 (description).
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, pp. 3, 9, 10, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., lv, Afd. A, No. 18, p. 56, 1913 (descrip-
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [tion).
Valdasus Stål, Rio Jan. Hemip., i, p. 56, 1858.
Distant, Biol. Centr. Am., Heter., i, p. 243, 1883.

1090. **Cylapus tenuicornis** Say

Say, Heter N. Harm., p. 26, 1832; Fitch reprint, p. 792; Compl. Writ., i,
Uhler, Check List, p. 20, 1886. [p. 347.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 68, 1891.
Uhler, Proc. Ent. Soc. Wash., ii, p. 123, 1891.
Banks, Ent. News, iv, p. 268, 1893.
Wirtner, Ann. Carn. Mus., iii, p. 196, 1904.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 10, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Localities: Ont., N. Y., Pa., Md., Ind.

TRIBE *FULVIINI* (Uhl.)

Uhler, Check List, p. 19, 1886, *Fulvaria.*
Reuter, Ent. Tidskr., xvi, p. 133, 1895, Div. *Fulvaria.*
Reuter, Festsch. f. Palmen, i, pp. 17, 27, 1905, Div. *Fulvaria.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906.
Kirkaldy, Can. Ent., xxxviii, p. 371, 1906.
Reuter, Neark. Caps., p. 65, 1909, Div. *Fulvaria.*
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 18, 1909, Div. *Fulvaria.* (Key.)
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 126, 1910, Div. *Fulvaria.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 204, 1916.
Teratodellaria Reuter, Rev. Crit. Caps., i, p. 75, 1875. (Division.)
Reuter, Genera Cimic. Eur., p. 5, 1875. (Division.)

Reuter, Hemip. Gymn. Eur., iii, p. 564, 1884. (Division.)
Distant, Fauna Brit. Ind., Rhyn., ii, p. 470, 1904.
Peritropini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.

Genus **Fulvius** Stål
Haplotype *anthocoroides* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 322, 1862.
Distant, Biol. Centr. Am., Heter., i, p. 281, 1884.
Reuter, Ent. Tidskr., xvi, p. 129, 1895. (Monograph.)
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 143, 1906.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 29, 1909. (Key.)
Teratodella Reuter, Genera Cimic. Eur., p. 7, 1875. (Type *anthocoroides* Reuter, Rev. Crit. Caps., i, p. 77, 1875. [Reut.)
Bergroth, Ent. Nachr., v, p. 108, 1879. [*anthocoroides* Uhl.)
Pamerocoris Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 424, 1877. (Type Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 412, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 126, 1887.
Camelocapsus Reuter, Bul. Soc. Ent. Fr., ser. 5, viii, p. cv, 1878. (Type [*oxycarenoides* Reut.)

1091. **Fulvius brunneus** (Prov.)

Provancher, Nat. Can., iv, p. 104, 1872, *Lygus*.
Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887, *Pamerocoris*.
Reuter, Ent. Tidskr., xvi, p. 140, 1895.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 31, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910. [*Pamerocoris*.
‖*anthocoroides* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 425, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 425, 1878, *Pamerocoris*.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894, *Pamerocoris*.
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Smith, Cat. Ins. N. J., edn. 2, p. 130, 1900.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Pamerocoris*.
Localities: Ont., Mass., N. Y., N. J., Md., D. C., Wis., Ia., Kans., Colo., Calif.

1092. **Fulvius imbecilis** (Say)

Say, Hemip. N. Harm., p. 25, 1832; Fitch reprint, p. 790; Compl. Writ., i, p. 345, *Capsus*.
Uhler, Check List, p. 19, 1886, *Poeciloscytus imbecillus*.
Van Duzee, Check List Hemip., p. 42, 1916.
heidemanni Reuter, Ent. Tidskr., xvi, p. 142, 1895 (*heinemanni*).
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 31, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: Pa., Md., Del., Va., Ind.

1093. **Fulvius atratus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 282, pl. 27, fig. 18, 1884.
Reuter, Ann. Soc. Ent. Fr., lxi, p. 391, 1892.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 192.
Reuter, Ent. Tidskr., xvi, p. 148, 1895.

Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 32, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: "U. S.," Fla. (Neotropical.)

Genus **Peritropis** Uhl.
Haplotype *saldaeformis* Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 121, 1891.
Reuter, Neark. Caps., p. 66, 1909.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 24, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 42, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916. [Dist.)
Mevius Distant, Hemip. Brit. Ind., Rhyn., ii, p. 453, 1904. (Type *lewisi*

1094. **Peritropis saldaeformis** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 122, 1891.
Reuter, Neark. Caps., p. 66, 1909.
Poppius, Acta Soc. Sci. Fenn., xxxvii, No. 4, p. 24, 1909.
Localities: Pa., D. C., Ill., Texas. (Neotropical.)

Subfamily DICYPHINAE Osh.

Oshanin, Kat. Palae. Hemip., p. 70, 1912.
Van Duzee, Check List. Hemip., p. 42, 1916.
Macrolophina Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 118, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.

TRIBE *HALLODAPINI* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 204, 210,
¶*Myrmicocoridae* Douglas and Scott, Brit. Hemip., pp. 34, 628, 1865. [1916.
Eroticoridae Douglas and Scott, Brit. Hemip., pp. 471, 628, 1865.
Cremnocephalaria Reuter, Neark. Caps., p. 64, 1909. (Division.)
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 119, 120, 150, 1910.
Oshanin, Kat. Palae. Hemip., p. 71, 1912. (Tribe.) [(Division.)
Systellonotaria Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p.
[46, 1912. (Division.)

Genus **Dacerla** Bergr.
Haplotype *inflatus* Uhl.

¶Signoret, Bul. Soc. Soc. Ent. Fr. for 1881, p. clvii.
Bergroth, Ent. News, viii, p. 95, 1897.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 132, 1906.
Reuter, Neark. Caps., p. 8, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.
‖*Myrmecopsis* Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 276, 1894 (type
[*inflatus* Uhl.).

1095. **Dacerla inflata** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 277, 1894, *Myrmecopsis*.
Reuter, Neark. Caps., p. 8, 1909 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 239, 1916.
¶*mediospinosa* Signoret, Bul. Soc. Ent. Fr. for 1881, p. clvii.
Locality: Calif.

Genus **Cyrtopeltocoris** Reut.
Haplotype *albo-fasciatus* Reut.

Reuter, Caps. Am. Bor., p. 81, 1876.
Reuter, Neark. Caps., p. 65, 1909, *Syrtopeltocoris*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1096. **Cyrtopeltocoris albo-fasciatus** Reut.

Reuter, Caps. Am. Bor., p. 81, 1876.
Barber, Brookl. Inst., Sci. Bul., i, p. 281, 1906.
Localities: Colo., Texas.

Genus **Sericophanes** Reut.
Haplotype *ocellatus* Reut.

Reuter, Caps. Am. Bor., p. 79, 1876.
Reuter, Neark. Caps., p. 65, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.
Myrmecopeplus Berg, Hemip. Arg. Add., p. 84, 1884 (type *ornatus* Berg).

1097. **Sericophanes ocellatus** Reut.

Reuter, Caps. Am. Bor., p. 79, 1876.
Popenoe, Trans. Kans. Acad. Sci., ix, pp. 63, 233, 1885.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
Osborn, Proc. Ia. Acad. Sci., v, p. 238, fig. 16, 1898.
Montgomery, Ent. News, xiii, p. 13, 1902.
Localities: Mass., N. Y., Ia., Kans., Texas.

1097½. **Sericophanes noctuans** Kugt.

Knight, Ent. News, xxviii, p. 4, 1917.
Locality: N. Y.

Sericophanes sp.

Heidemann, Proc. Ent. Soc. Wash., xii, p. 46, 1910.

Genus **Teleorhinus** Uhl.
Haplotype *cyaneus* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 74, 1890.

1098. **Teleorhinus cyaneus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 75, 1890.
Locality: Calif.

Genus **Closterocoris** Uhl.
Haplotype *ornata* Uhl. = *amoenus* Prov.

Uhler, Trans. Md. Acad. Sci., i, p. 76, 1890.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.
†*Pycnopterna* Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887.

1099. **Closterocoris amoenus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 114, 1887, *Pycnopterna*.
Harrington, Ottawa Nat., vi, p. 27, 1892, *Pycnopterna*.
Van Duzee, Can. Ent., xliv, p. 321, 1912.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 26, 1914.
ornata Uhler, Trans. Md. Acad. Sci., i, p. 77, 1890.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.
Localities: Calif., "Ottawa" (accidental) Prov.

Genus **Cyphopelta** Van D.
Orthotype *modesta* Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 81, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1100. **Cyphopelta modesta** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 81, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 26, 1914.
Locality: Calif.

Genus **Orectoderus** Uhl.
Haplotype *obliquus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876.
Reuter, Neark. Caps., p. 65, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1101. **Orectoderus obliquus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 320, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328.
Gillette and Baker, Hemip. Colo., p. 47, 1895.
Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 249, figs. 1, 2, 5, 23.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No 7, p. 47, 1912.
Parshley, Psyche, xxi, p. 142, 1914.
Localities: Ont., Me., N. Y., N. J., Colo., Manitoba.

1102. **Orectoderus longicollis** Uhl.

Uhler, Hemip. Colo., p. 47, 1895.
Locality: Colo.

Genus **Coquillettia** Uhl.
Haplotype *insignis* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 78, 1890.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.

1103. **Coquillettia insignis** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 79, 1890.
Gillette and Baker, Hemip. Colo., p. 48, 1895.
Snow, Univ. Kans. Sci. Bul., ii, p. 348, 1904.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Van Duzee, San Diego Soc. Nat. Hist., ii, p. 26, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
Localities: Kans., Colo., Ariz., Calif.

1104. **Coquillettia mimetica** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 236, 1898.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Fla., Ia., Ariz.

1105. **Coquillettia amoenus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 426, 1877, *Orectoderus.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Orectoderus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Orectoderus.*
Gillette and Baker, Hemip. Colo., p. 47, 1895, *Orectoderus.*
Van Duzee, Check List Hemip., p. 42, 1916.
Localities: Kans., Colo.

TRIBE *DICYPHINI* (Reut.)

Reuter, Hemip. Gymn. Eur., iii, pp. 408, 559, 566, 1883, Div. *Dicypharia.*
Reuter, Festschr. f. Palmen, i, p. 18, 1905, Div. *Dicypharia.*
Reuter, Ann. k. k. Nat. Hofms. Wien, xx, p. 77, 1907, Div. *Dicypharia.*
Reuter, Neark. Caps., p. 61, 1909, Div. *Dicypharia.*
Oshanin, Kat. Palae. Hemip., p. 70, 1912, Tribe *Dicypharia.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 203, 204, 210, 1916.
Idolocoridae Douglas and Scott, Brit. Hemip., pp. 31, 367, 1865. (Family.)
Campyloneuraria Kirkaldy, Fauna Hawai., iii, p. 138, 1902. (Division.)
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906, Tribe *Campy-*
[*loneurini.*
Macrolopharia Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Macro-*
[*lophini.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 121, 1910. (Division.)
Poppius, Of. Finska Vet.-Soc. Forh., liii, Afd. A, No. 2, p. 29, 1911.
[(Division.)

Genus **Hyaliodes** Reut.
Haplotype *vitripennis* Say

Reuter, Caps. Am. Bor., p. 83, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 142, 1887.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 78, 1907 (description).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 210, 1916.
Neocarnus Distant, Biol. Centr. Am., Heter., i, p. 289, 1884.
Reuter, Neark. Caps., p. 62, 1909.

1106. **Hyaliodes vitripennis** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 789; Compl. Writ., i,
Reuter, Caps. Am. Bor., p. 84, 1876. [p. 345, *Capsus.*
Saunders, Ins. Inj. to Fruits, p. 228, 1883, *Campyloneura.*
Uhler, Stand. Nat. Hist., ii, p. 287, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 143, 1887.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894.
Seiss, Ent. News, viii, p. 67, 1897.
Osborn, Ohio Nat., i, p. 12, 1900.
Montgomery, Ent. News, xiii, p. 13, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.

Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Moore, Can. Ent., xxxix, p. 162, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Reuter, Neark. Caps., p. 61, 1909.
Smith, Cat. Ins. N. J., edn. 3, 161, 1910.
Parshley, Psyche, xxi, p. 142, 1914.

a. var. **discoidalis** Reut.

Reuter, Neark. Caps., p. 61, 1909.

Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Ohio, Ia, Kans.

Genus **Dicyphus** Fieb.
Logotype *pallidus* H. S.

Fieber, Wien. Ent. Monat., ii, p. 327, 1858.
Fieber, Europ. Hemip., pp. 77, 325, 1861.
Thomson, Opusc. Ent., iv, p. 435, 1871.
Reuter, Genera Cimic. Eur., p. 27, 1875.
Reuter, Rev. Crit. Caps., i, p. 89; ii, p. 110, 1875.
Reuter, Ent. Mo. Mag., xx, p. 49, 1883.
Reuter, Hemip. Gymn. Eur., iii, pp. 411, 559, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 139, 1887.
Oshanin, Verz. Palae. Hemip., i, p. 812, 1909.
Reuter, Of. Finska. Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 60, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.

Brachyceraea Fieber, Wien. Ent. Monat., ii, p. 327, 1858 (Haplotype Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906. [*geniculata* Fieb.). Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, 1910.

Idolocoris Douglas and Scott, Brit. Hemip., p. 574, 1865. (Type *palli-* Provancher, Pet. Faune Ent. Can., iii, p. 140, 1887. [*cornis* D. & S.)

1107. **Dicyphus californicus** (Stål)

Stål, Freg. Eug. Resa, Ins., p. 259, 1859, *Capsus.*
Walker, Cat. Heter., vi, p. 66, 1873, *Cyllocoris.*
Reuter, Caps. Am. Bor., p. 82, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 140, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.
Gillette and Baker, Hemip. Colo., p. 46, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Slosson, Ent. News, xvii, p. 326, 1906.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.

Localities: Ont., N. H., N. Y., Pa., Kans., Colo., Calif. (Eastern references uncertain.)

1108. **Dicyphus agilis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 425, 1877, *Idolocoris.*
Provancher, Pet. Faune Ent. Can., iii, p. 141, 1887, *Idolocoris.*

Van Duzee, Can. Ent., xix, p. 72, 1887, *Idolocoris*.
Van Duzee, Can. Ent., xxi, p. 4, 1889, *Idolocoris*.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Idolocoris*.
Harrington, Ottawa Nat., vi, p. 28, 1892, *Idolocoris*.
Gillette and Baker, Hemip. Colo., p. 46, 1895 (as var. of *californicus*).
Slosson, Ent. News, ix, p. 251, 1889.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Moore, Can. Ent., xxxix, p. 162, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Parshley, Psyche, xxi, p. 142, 1914, *Idolocoris*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
?luctuosus Prov., Pet. Faune Ent. Can., iii, p. 137, 1887, *Chlamydatus*.

Localities: Quebec, Ont., N. Y., N. H., Ia., Colo., Utah, Calif., Wash., B. C.

1108½. **Dicyphus crudus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.

Locality: Calif.

1109. **Dicyphus famelicus** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 413, 1878, *Idolocoris*.
Van Duzee, Can. Ent., xix, p. 72, 1887, *Idolocoris*.
Harrington, Ottawa Nat., vi, p. 28, 1892, *Idolocoris*.
Slosson, Ent. News, vi, p. 321, 1895.
Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Moore, Can. Ent., xxxix, p. 162, 1907.
Smith, Cat. Ins. N. J., edn. 3, 161, 1910.

Localities: Ont., N. H., N. Y., N. J., Pa.

1110. **Dicyphus vestitus** Uhl.

Uhler, Hemip. Colo., p. 46, 1895.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.

Localities: N. H., N. Y., Dak., Colo., N. Mex., Calif.

1111. **Dicyphus minimus** Uhl.

Uhler, Ent. News, x, p. 59, 1899.
§*minutus* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.

Localities: D. C., Fla., N. Mex., Colo., Calif.

Genus **Engytatus** Reut.

Haplotype *geniculatus* Reut.

Reuter, Caps. Am. Bor., p. 82, 1876.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, note, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
†*Cyrtopeltis* Reuter, Neark. Caps., p. 62, 1909.

1112. **Engytatus geniculatus** Reut.

Reuter, Caps. Am. Bor., p. 83, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 193.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 152, note, 1910.
varians Distant, Biol. Centr. Am., Heter., i, p. 271, pl. 26, fig. 7, 1884,
Reuter, Neark. Caps., p. 62, 1909, *Cyrtopeltis.* [*Neoproba.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Fla., Texas.

1113. **Engytatus simplex** (Reut.)

Reuter, Neark. Caps., p. 63, 1909, *Cyrtopeltis.*
Locality: Calif.

1114. **Engytatus melanocephalus** (Reut.)

Reuter, Neark. Caps., p. 63, 1909, *Cyrtopeltis.*
Locality: Texas.

1115. **Engytatus tenuis** (Reut.)

Reuter, Revue d'Ent., xiv, p. 139, 1895, *Cyrtopeltis.*
Reuter, Of. Finska Vet.-Soc. Forh., xlv, No. 16, p. 21, 1903, *Cyrtopeltis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909, *Cyrtopeltis.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 151, note, 1910.
Localities: Fla. (Palaearctic.)

Genus **Macrolophus** Fieb.
Logotype *nubilus* Fieb.

Fieber, Wien. Ent. Monat., ii, p. 326, 1858.
Fieber, Europ. Hemip., pp. 76, 321, 1861.
Douglas and Scott, Brit. Hemip., p. 381, 1865.
Reuter, Genera Cimic. Eur., p. 27, 1875.
Reuter, Rev. Crit. Caps., i, p. 89; ii, p. 109, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 435, 559, 1883.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.

1116. **Macrolophus separatus** (Uhl.)

Uhler, Check List, p. 20, 1886 (nomen nudum).
Van Duzee, Can. Ent., xxi, p. 4, 1889 (nomen nudum).
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 194, *Dicyphus* (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907, *Dicyphus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909, *Dicyphus.*
Reuter, Neark. Caps., p. 62, 1909.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
†*famelicus* Provancher, Pet. Faune Ent. Can., iii, p. 141, 1887, *Idolocoris.*
Localities: Ont., Mass., N. Y., Pa., Md., Fla., Ohio, Ia., Colo., Texas, N. Mex., Calif.

Subfamily ORTHOTYLINAE Van. D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 203, 1916.
Van Duzee, Check List Hemip., p. 43, 1916.
Heterotominae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 114, 1910.
Cyllocorinae Oshanin, Kat. Palae. Hemip., p. 72, 1912.

TRIBE *ORTHOTYLINI* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 204, 211, 1916.
Van Duzee, Check List Hemip., p. 43, 1916.

Cyllocoraria Reuter, Genera Cimic. Eur., pp. 6, 22, 1875.
Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 81, 1875. (Division.)
Reuter, Hemip. Gymn. Eur., iii, pp. 319, 567, 1883. (Division.)
Reuter, Festschr. f. Palmen, i, pp. 16, 27, 1905. (Division.)
Oshanin, Verz. Palae. Hemip., p. 826, 1909. (Division.)
Reuter, Neark. Caps., p. 66, 1909. (Division.)
Oshanin, Kat. Palae. Hemip., p. 72, 1912, Tribe *Cyllocoraria*.

Callecoraria Uhler, Check List, p. 19, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 99, 1886, *Callicorides*.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Callecorinae*.

Heterotomaria Kirkaldy, Fauna Hawai., iii, p. 132, 1902. (Division.)
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906, Tribe *Heterotomini*.
Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Heterotomini*.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 117, 148, 1910.
[(Division.)
Poppius, Of. Finska Vet.-Soc. Forh., lii, Afd. A, No. 2, p. 31, 1911.
[(Division.)

DIVISION *LABOPARIA* Reut.

Reuter, Hemip. Gymn. Eur., iii, p. 567, 1883 (part).
Puton, Cat. Hémip. Palae., edn. 3, p. 53, 1886 (part).
Atkinson, Cat. Capsidae, p. 117, 1889 (part).
Reuter, Hemip. Gymn. Eur., iv, p. 17, 1891 (part).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 479, 1904 (part).
Reuter, Festschr. f. Palmen, i, pp. 19, 28, 1905 (part).
Banks, Cat. Neark. Hemip., p. 38, 1910, *Labopini* (part).
Oshanin, Kat. Palae. Hemip., p. 74, 1912. (Tribe.) [stricted).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916 (re-

Genus **Labops** Burm.
Haplotype *diopsis* Burm.

Burmeister, Handb. d. Ent., ii, p. 279, 1835.
Fieber, Wien. Ent. Monat., ii, p. 316, 1858.
Fieber, Europ. Hemip., pp. 71, 294, 1861.
Thomson, Opusc. Ent., iv, p. 432, 1871.
Walker, Cat. Heter., vi, p. 44, 1873.
Reuter, Genera Cimic. Eur., p. 24, 1875.
Reuter, Rev. Crit. Caps., i, p. 86; ii, p. 97, 1875.
Provancher, Pet. Faune Ent. Can., iii, p. 135, 1887.
Reuter, Hemip. Gymn. Eur., iv, pp. 80, 160, 1891.
Hüeber, Synop. deut. Blindw., ii, p. 5, 1894?
Oshanin, Verz. Palae. Hemip., i, p. 786, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
Ophthalmocoris Zetterstedt, Ins. Lapp., column 280, 1840.

1117. **Labops hesperius** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 416, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 417, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 135, 1887.

Van Duzee, Can. Ent., xxi, p. 4, 1889.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Gillette and Baker, Hemip. Colo., p. 46, 1895.
Slosson, Ent. News, vi, p. 321, 1895.
Macgillivray and Houghton, Ent. News, xiv, p. 263, 1903.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Van Duzee, Ottawa Nat., xxvi p. 68, 1912.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 240, 1916.
Localities: Quebec, Ont., N. H., N. Y., Colo., N. Mex., Calif.

1118. **Labops burmeisteri** Stål

Stål, Stet. Ent. Zeit., xix, p. 189, 1858.
Reuter, Of. Finska Vet.-Soc. Forh., xxi, p. 59, 1878.
Reuter, Hemip. Gymn. Eur., iv, pp. 83, 169, 1891.
Oshanin, Verz. Palae. Hemip., i, p. 786, 1909.
Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125.
Localities: Ont., N. Y., Alaska. (Siberia.)

DIVISION *HALTICARIA* Kirk.

Kirkaldy, Fauna Hawai., iii, p. 139, 1902.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906, Tribe *Halticini*.
Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Halticini*.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 115, 1910.
Poppius, Of. Finska Vet.-Soc. Forh., liii, Afd. A, No. 2, p. 33, 1911.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
Van Duzee, Check List Hemip., p. 43, 1916. [(Family.)
Halticocoridae Douglas and Scott, Brit. Hemip., pp. 35, 478, 1865.
Stiphrosomidae Douglas and Scott, Brit. Hemip., pp. 35, 481, 1865. [(Family.)
[Divisions *Diplacaria*, *Myrmecophyaria* and *Hypseloecaria* Reut. are not found in our territory.]

Genus **Halticus** Hahn
Haplotype *pallicornis* (Fabr.) = *apterus* (Linn.)

Hahn, Wanz. Ins., i, p. 113, 1831.
Burmeister, Handb. d. Ent., ii, p. 277, 1835.
Fieber, Wien. Ent. Monat., ii, p. 312, 1858.
Fieber, Europ. Hemip., pp. 69, 281, 1861.
Thomson, Opusc. Ent., iv, p. 441, 1871.
Reuter, Genera Cimic. Eur., p. 23, 1875.
Reuter, Rev. Crit. Caps., i, p. 86, ii, p. 89, 1875.
Reuter, Hemip. Gymn. Eur., iv, pp. 17, 157, 1891.
Hüeber, Synop. deut. Blindw., ii, pp. 2, 42, 1894?
Distant, Fauna Brit. Ind., Rhyn., ii, p. 479, 1904.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.
[*Orthonotus* Westw. MS], Stephens, Syst. Cat. Brit Ins., p. 344, 1829.
Astemma, Latreille *in* Cuvier, Règne Anim., edn. 2, v, p. 199, 1829 (type Amyot and Serville, Hémip., p. 284, 1843. [*pallicornis* Fabr.)

Eurycephala Laporte, Essai Classif. Syst. Hémip., p. 36, 1832 (type
Brullé, Hist. des Ins., ix, p. 410, 1835. [*luteicollis* L. & S.).
Spinola, Essai sur les Hémip., p. 191, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 140, 1840. [Panz. type).
†*Miris* Laporte, Essai Classif. Syst. Hémip., p. 39, 1832 (names *luteicollis*
Halticocoris Douglas and Scott, Brit. Hemip., p. 478, 1865 (type *palli-*
[*cornis* Fabr.).

1119. **Halticus apterus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada.*
Linnaeus, Fauna Suec., new edn., No. 894, 1861, *Cicada.*
Brullé, Hist. des Ins., ix, p. 410, pl. 33, fig. 6, 1835, *Eurycephala.*
Blanchard, Hist. des Ins., Hémip., p. 140, 1840, *Eurycephala.*
Amyot and Serville, Hémip., p. 284, 1843, *Astemma.*
Reuter, Rev. Crit. Caps., ii, p. 90, 1875.
Uhler, Check List, p. 20, 1886.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Reuter, Rev. Synon., p. 286, No. 259, 1888.
Reuter, Hemip. Gymn. Eur., iv, pp. 18, 161, pl. 1, fig. 5, 1891.
Saunders, Heter. Brit. Isds., p. 268, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Hüeber, Synop. deut. Blindw., ii, p. 44, 1894?
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
pallicornis Fabricius, Ent. Syst., iv, p. 69, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 115, 1803, *Salda.*
Wolff, Icon. Cimic., iv, p. 122, fig. 122, 1804, *Acanthia.*
Fallén, Monog. Cimic. Suec., p. 95, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 113, 1829, *Phytocoris.*
Latreille *in* Cuvier, Règne Anim., edn. 2, v, p. 199, 1829, *Astemma.*
Hahn, Wanz. Ins., i, p. 114, fig. 61, 1831.
Herrich-Schaeffer, Nomen. Ent., i, p. 53, 1835, *Capsus.*
Burmeister, Handb. d. Ent., ii, p. 278, 1835.
Spinola, Essai sur les Hémip., p. 191, 1837 (1840), *Eurycephala.*
Blanchard, Hist. des Ins., Hémip., p. 140, 1840, *Eurycephala.*
Meyer-Duer, Verz. Schw. Rhyng., p. 110, 1843, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 102, 1855, *Capsus* (*Eury-*
Kolenati, Melet. Ent., ii, p. 130, 1845, *Eurycephala.* [*merocoris*).
Sahlberg, Monog. Geoc. Fenn., p. 118, 1848, *Capsus.*
Costa, Cimic. Reg. Neap., Cent. iii, p. 53, 1852.
Fieber, Europ. Hemip., p. 282, 1861.
Fieber, Wien. Ent. Monat., viii, p. 221, 1864.
Douglas and Scott, Brit. Hemip., p. 479, 1865, *Halticocoris.*
Thomson, Opusc. Ent., iv, p. 441, 1871, *Capsus.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 411, 1878, *Halticocoris.*
§*pallidicornis* Herrich-Schaeffer, Nomen. Ent., i, p. 53, 1835, *Capsus.*
Flor, Rhyn. Livl., i, p. 583, 1860, *Capsus.*
Localities: N. H., Mass., N. Y., Pa., Md., Ill., Colo.

1120. **Halticus intermedius** Uhl.

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.

1121. **Halticus bracteatus** (Say)

Say, Heter. N. Harm., p. 26, 1832; Fitch reprint, p. 792; Compl. Writ., i, p.
Uhler, Check List, p. 20, 1886. [348, *Cylapus.*
Van Duzee, Can. Ent., xix, p. 72, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Gillette and Baker, Hemip. Colo., p. 46, 1895.
Webster, 27th Rept. Ent. Soc. Ont., p. 83, 1896.
Webster, Ent. News, viii, p. 209, with figs., 1897.
Moore, Can. Ent., xxxix, p. 163, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Localities: Ont., N. Y., Ohio, Ind., Kans., Colo.

1122. **Halticus citri** (Ashm.)

Ashmead, Ent. Am., iii, p. 155, 1887, *Rhinocloa.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Parshley, Psyche, xxi, p. 142, 1914. [10, 11, 1889.
[*minutus* Uhler MS] Popenoe, 2d Rept. Kans. Exp. Sta., p. 212, pl. 9, figs.
uhleri Giard, Compt. Rend. Soc. Biol., ser. 9, iv, p. 81, 1892.
Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 195.
Osborn, Ohio Nat., i, p. 12, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Reuter, Wien. Ent. Zeit., xxvii, p. 53, 1908.
Reuter, Neark. Caps., p. 71, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
canus (Distant), Biol. Centr. Am., Heter., i, p. 430, pl. 37, figs. 11, 12,
Kirkaldy, Entomol., xxxvii, p. 179, 1904. [1893, *Calocoris.*
Localities: Ont., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., Ohio, Ill., Kans., Mo., Utah.

[**Halticus nitidus** Uhl. MS]

Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.

Genus **Strongylocoris** Blanch.
Haplotype *leucocephalus* Linn.

Blanchard, Hist. des Ins., Hémip., p. 140, 1840.
Costa, Cimic. Reg. Neap., Cent., iii, p. 48, 1852.
Puton, Cat. Hémip. Palae., edn. 3, p. 53, 1886.
Atkinson, Cat. Capsidae, p. 119, 1889.
Reuter, Hemip. Gymn. Eur., iv, pp. 26, 157, pl. 1, fig. 6, 1891.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 148, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 211, 1916.

Stiphrosomus Fieber, Wien. Ent. Monat., ii, p. 312, 1858 (Logotype *leucocephalus* Linn.)
‡*Stiphrosoma* Fieber, Europ. Hemip., pp. 69, 280, 1861.
Douglas and Scott, Brit. Hemip., p. 481, 1865.
Walker, Cat. Heter., vi, p. 43, 1873.
Reuter, Genera Cimic. Eur., p. 23, 1875.
Reuter, Crit. Rev. Caps., i, p. 85; ii, p. 87, 1875.
Uhler, Check List, p. 20, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.

1123. **Strongylocoris stygicus** (Say)

Say, Heter. N. Harm., p. 24, 1832; Fitch reprint, p. 789; Compl. Writ., i, p. 344, *Capsus.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Stiphrosoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878, *Stiphrosoma.*
Provancher, Pet. Faune Ent. Can., iii, p. 132, 1887, *Stiphrosoma.*
Van Duzee, Can. Ent., xix, p. 72, 1887; xxi, p. 4, 1889, *Stiphrosoma.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Stiphrosoma.*
Harrington, Ottawa Nat., vi, p. 28, 1892, *Stiphrosoma.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Stiphrosoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Stiphrosoma.*
Gillette and Baker, Hemip. Colo., p. 49, 1895, *Stiphrosoma.*
Osborn, Ohio Nat., i, p. 12, 1900, *Stiphrosoma.*
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 110, 1903, *Stiphrosoma.*
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Stiphrosoma.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Stiphrosoma.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Stiphrosoma.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908, *Stiphrosoma.*
Van Duzee, Can. Ent., xliv, p. 322, 1912, *Stiphrosoma.*
Parshley, Psyche, xxi, p. 142, 1914, *Stiphrosoma.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., N. C., Ohio, Ia., Colo., N. Mex., Calif.

1124. **Strongylocoris atratus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894, *Stiphrosoma.*
Gillette and Baker, Hemip. Colo., p. 45, 1895, *Stiphrosoma.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Stiphrosoma.*
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: Colo., N. Mex., Calif.

1125. **Strongylocoris croceipes** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 373, 1893, *Stiphrosoma.*
Gillette and Baker, Hemip. Colo., p. 45, 1895, *Stiphrosoma.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Stiphrosoma.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
Localities: Colo., Utah, Calif.

1126. **Strongylocoris robustus** (Uhl.)

Uhler, Hemip. Colo., p. 45, 1895, *Stiphrosoma.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Localities: Texas, Colo., N. Mex.

DIVISION *PILOPHORARIA* Reut.

Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883; iv, p. 110, 1891.
Reuter, Festschr. f. Palmen, i, pp. 17, 27, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 132, 1906, Tribe *Pilophorini.*
Kirkaldy, Can. Ent., xxxviii, p. 371, 1906, Tribe *Pilophorini.*
Reuter, Neark. Caps., p. 73, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.
Camaronotidae Douglas and Scott, Brit. Hemip., pp. 30, 358, 1865. (Family.)

Genus **Heterocordylus** Fieb.
Logotype *tumidicornis* Kirschb.

Fieber, Wien. Ent. Monat., ii, p. 316, 1858.
Fieber, Europ. Hemip., pp. 71, 290, 1861.
Douglas and Scott, Brit. Hemip., p. 432, 1865.
Thomson, Opusc. Ent., iv, p. 440, 1871.
Reuter, Genera Cimic. Eur., p. 22, 1875.
Reuter, Rev. Crit. Caps., i, p. 85; ii, p. 81, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 327, 544, pl. 1, fig. 5, 1884.
Hüeber, Synop. deut. Blindw., ii, pp. 105, 220, 1894?
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
Bothrocranum Reuter, Pet. Nouv. Ent., ii, p. 54, 1876 (type *freyii* Reut.).

1127. **Heterocordylus malinus** Reut.

Reuter, Neark. Caps., p. 71, 1909.
Crosby, Can. Ent., xliii, p. 17, 1911 (life history).
Knight, Jl. Econ. Ent., viii, p. 293, 1915 (oviposition).
Parshley, Ent. News, xxvii, p. 104, 1916.
Localities: N. H., N. Y., Ill.

Genus **Pilophorus** Hahn
Haplotype *bifasciatus* (Fabr.) = *clavatus* (Linn.)

Hahn, Icones Cimic., i, p. 23, 1826.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
Reuter, Genera Cimic. Eur., p. 22, 1875.
Reuter, Rev. Crit. Caps., i, p. 85; ii, p. 84, 1875.
Uhler, Ent. Am., iii, p. 29, 1887.
Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.
Atkinson, Cat. Capsidae, p. 112, 1889.
Reuter, Hemip. Gymn. Eur., iv, pp. 112, 173, 1891.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 49, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
Camaronotus Fieber, Wien. Ent. Monat., ii, p. 322, 1858 (type *clavatus* [Linn.).
Fieber, Europ. Hemip., pp. 74, 313, 1861.
Douglas and Scott, Brit. Hemip., p. 358, 1865.
Thomson, Opusc. Ent., iv, p. 441, 1871.

1128. **Pilophorus clavatus** (Linn.)

Linnaeus, Syst. Nat., edn. 12, i, p. 729, 1767, *Cimex.*
Herrich-Schaeffer, Nomen. Ent., i, p. 48, 1835, *Capsus.*
Zetterstedt, Ins. Lapp., column 278, 1840, *Capsus.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840.
Meyer-Duer, Synop. Schw. Rhyn., p. 87, 1843, *Capsus.*
Sahlberg, Monog. Geoc. Fenn., p. 91, 1848, *Capsus.*

Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 297, 1855, *Capsus* (*Leptomerocoris*).
Fieber, Wien. Ent. Monat., ii, p. 322, 1858, *Camaronotus*.
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 742, 1858, *Capsus*.
Flor, Rhyn. Livl., i, p. 569, 1860, *Capsus*.
Fieber, Europ. Hemip., p. 314, 1861, *Camaronotus*.
Douglas and Scott, Brit. Hemip., p. 360, 1865, *Camaronotus*.
Thomson, Opusc. Ent., iv, p. 442, 1871, *Capsus*.
Reuter, Rev. Crit. Caps., ii, p. 86, 1875.
Reuter, Rev. Synon., p. 290, No. 266, 1888.
Reuter, Hemip. Gymn. Eur., iv, p. 114, pl. 6, fig. 3, 1891.
Saunders, Heter. Brit. Isds., p. 264, pl. 24, fig. 7, 1892.
Horvath, Ann. Mus., Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 74, 1909.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 50, 1912.
Van Duzee, Can. Ent., xliv, p. 322, 1912.

†*bifasciatus* Schrank, Fauna Boica, p. 86, 1801, *Cimex*.
Fallén, Monog. Cimic. Suec., p. 99, 1807, *Capsus*.
Hahn, Icon. Cimic., i, fig. 22, 1826.
Zetterstedt, Fauna Lapp., p. 498, 1828, *Capsus*.
Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus*.
Provancher, Pet. Faune Ent. Can., iii, p. 131, 1887.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Localities: Ont., Mass., N. Y., Minn.

1129. **Pilophorus cinnamopterus** (Kirsch.)

Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 72, 116, 135, 1855, *Capsus*.
Flor, Rhyn. Livl., i. p. 572, 1860, *Capsus*.
Fieber, Europ. Hemip., p. 314, 1861, *Camaronotus*.
Douglas and Scott, Brit. Hemip., p. 359, pl. 11, fig. 8, 1865, *Camaronotus*.
Reuter, Rev. Synon., p. 290, No. 265, 1888.
Reuter, Hemip. Gymn. Eur., iv, pp. 113, 175, pl. 6, fig. 2, 1891.
Saunders, Heter. Brit. Isds., p. 264, pl. 24, fig. 7, 1892.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 50, 1912.

‖*bifasciatus* Fabricius, Syst. Ent., p. 725, 1775, *Cimex*.
Fabricius, Ent. Syst., iv, p. 177, 1794, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 242, 1803, *Capsus*.
Latreille, Hist. Nat. Crust. Ins., xii, p. 230, 1804, *Capsus*.
Zetterstedt, Fauna Lapp., p. 497, 1828, *Capsus*.
Zetterstedt, Ins. Lapp., column 277, 1840, *Capsus*.
Reuter, Rev. Crit. Caps., ii, p. 85, 1875.
Reuter, Berl. Ent. Zeit., xxv, p. 177, 1881.
Uhler, Check List, p. 20, 1886.
Uhler, Ent. Am., iii, p. 30, 1887.
Osborn, Ohio Nat., i, p. 12, 1900.

†*confusus* Thomson, Opusc. Ent., iv, p. 442, 1871, part, *Capsus* (*Camaronotus*).
Localities: Ohio. (Europe.)

1130. **Pilophorus schwarzi** Reut.

Reuter, Neark. Caps., p. 74, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.

†*confusus* Uhler, Check List, p. 20, 1886.
Uhler, Ent. Am., iii, p. 29, 1887.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Oshanin, Verz. Palae. Hemip., i, p. 809, note, 1909.
Localities: N. Y., D. C., Colo., Calif.

1131. **Pilophorus amoenus** Uhl.

Uhler, Ent. Am., iii, p. 30, 1887.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Slosson, Ent. News, viii, p. 240, 1897.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Moore, Can. Ent., xxxix, p. 163, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Parshley, Psyche, xxi, p. 142, 1914.
†*confusus* Van Duzee, Can. Ent., xix, p. 72, 1887.
Localities: Ont., Me., N. H., N. Y., Pa., N. J., D. C., Colo., N. Mex.

1132. **Pilophorus walshi** Uhl.

Uhler, Ent. Am., iii, p. 30, 1887.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: N. Y., N. J., Pa., Ohio, Ill., Colo.

[**Pilophorus laetus** Uhl. MS]
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: N. J., D. C.

[**Pilophorus crassipes** Uhl. MS]
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Moore, Can. Ent., xxxix, p. 163, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: N. J., Md., D. C., Ohio, Colo., Calif.

[**Pilophorus clavipes** Uhl. MS]
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Locality: N. Y.

[**Pilophorus fraternus** Uhl. MS]
Lintner, 2d Rept. N. Y. St. Ent., p. 186, 1885, *Camaronotus*.
Locality: N. Y.

Genus **Alepidia** Reut.
Orthotype *gracilis* Uhl.

Reuter, Neark. Caps., p. 75, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916

1133. **Alepidia gracilis** (Uhl.)

Uhler, Hemip. Colo., p. 42, 1895, *Pilophorus*.
Reuter, Neark. Caps., p. 75, 1909 (as type).
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: N. J., W. Va., Colo.

DIVISION *CERATOCAPSARIA* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.

Genus **Pamillia** Uhl.

Haplotype *behrensii* Uhl.

Uhler, Ent. Am., iii, p. 31, 1887.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1134. **Pamillia behrensii** Uhl.

Uhler, Ent. Am., iii, p. 31, 1887.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Locality: Calif.

Genus **Tiryus** Kirk.

Haplotype *punctulatus* (Reut.)

Kirkaldy, Wien. Ent. Zeit., xxii, p. 14, 1903 (n.n. for *Trichia* Reut.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 133, 1906.
Reuter, Neark. Caps., p. 71, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
‖*Trichia* Reuter, Caps. Am. Bor., p. 81, 1876 (type *punctulatus*).

1135. **Tiryus punctulatus** (Reut.)

Reuter, Caps. Am. Bor., p. 82, 1876, *Trichia*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 30, 1907.
Reuter, Neark. Caps., p. 71, 1909.
Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 174, 1907, *Ceratocapsus*.
Bergroth, Ann. Soc. Ent. Belg., liv, p. 68, 1910, *Ceratocapsus*.
Localities: Texas. (Mexico, West Indies.)

1136. **Tiryus elongatus** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 257, 1894, *Melinna*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914, *Ceratocapsus*.
Localities: Fla., Colo., Texas, Ariz., Calif.

Genus **Ceratocapsus** Reut.

Logotype *lutescens* Reut.

Reuter, Caps. Am. Bor., p. 87, 1876.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.
‖*Melinna* Uhler, Ent. Am., iii, p. 68, 1887 (type *modestus* Uhl.). [Uhl.).
Hypereides Kirkaldy, Wien. Ent. Zeit., xxii, p. 14, 1903 (n.n. for *Melinna*

1137. **Ceratocapsus lutescens** Reut.

Reuter, Caps. Am. Bor., p. 87, 1876.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Ceratocapsus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.
Localities: Fla., Kans., Texas.

1138. **Ceratocapsus modestus** (Uhl.)

Uhler, Ent. Am., iii, p. 69, 1887, *Melinna*.
Van Duzee, Can. Ent., xxi, p. 3, 1889, *Melinna*.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892, *Melinna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Melinna.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 191, *Melinna.*
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Melinna.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 356, 1904, *Melinna.*
Wirtner, Ann. Carn. Mus., iii, p. 198, 1904, *Melinna.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Melinna.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna.*
Moore, Can. Ent., xxxix, p. 163, 1907, *Melinna.*
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
[*carbonarius* Fitch MS] Uhler, Ent. Am., iii, p. 69, 1887, *Phytocoris.*
Localities: Ont., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ill., Kans., Ia., Colo., N. Mex.

1139. **Ceratocapsus pumilus** (Uhl.)

Uhler, Ent. Am., iii, p. 69, 1887, *Melinna.*
Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Melinna.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.
Smith, Cat. Ins. N. J., edn., 3, p. 161, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Ont., Mass., N. Y., Ohio, Md., D. C., Fla., Ill., Kans., Colo., Texas.

1140. **Ceratocapsus setosus** Reut.

Reuter, Neark. Caps., p. 70, 1909.
Van Duzee,Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
‖*pteridis* Uhler, Check List, p. 19, 1886, *Bryocoris.*
Smith, Cat. Ins. N. J., edn. 2, p. 131, 1900, *Bryocoris.*
Localities: N. J., Pa., D. C., Fla., Calif.

1141. **Ceratocapsus minutus** (Uhl.)

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 713, *Melinna.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 234, 1905, *Melinna.*
Localities: Fla., Kans. (West Indies.)

1142. **Ceratocapsus fasciatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 421, 1877, *Megacoelum.*
Van Duzee, Can. Ent., xix, p. 71, 1887, *Megacoelum.*
Uhler, Ent. Am., iii, p. 69, 1887, *Melinna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 177, 1894, *Melinna.*
Gillette and Baker, Hemip. Colo., p. 35, 1895, *Megacoelum.*
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Melinna.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Localities: Ont., Mass., N. Y., N. J., Ia., Kans., Colo.

DIVISION *LOPIDEARIA* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.
?Lopariinae Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.

Genus **Lomatopleura** Reut.
Haplotype *caesar* Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 148, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1143. **Lomatopleura caesar** Reut.

Reuter, Caps. Am. Bor., p. 67, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 250, 1894.
Gillette and Baker, Hemip. Colo., p. 31, 1895.
Osborn, Proc. Ia. Acad. Sci., v. p. 233, 1898.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 109, 1903.
Reuter, Neark. Caps., p. 72, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 162, 1910.
Localities: N. Y., N. J., Pa., N. C., Ia., Colo.

1144. **Lomatopleura hesperia** Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1902, p. 252, pl. 5, fig. 1.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
‖*coccineus* Walker, Cat. Heter., vi, p. 93, 1873, *Capsus*.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 109, 1904.
Locality: Fla.

1145. **Lomatopleura instabile** Reut.

Reuter, Neark. Caps., p. 72, 1909.
a. var. **marginalis** Reut.
Reuter, Neark. Caps., p. 72, 1909.
Lomatopleura sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 181, 1909.
Localities: N. Y., Md., D. C., Fla.

Genus **Lopidea** Uhl.
Haplotype *media* Say

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 411, 1872.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 405, 1878.
Distant, Biol. Centr. Am., Heter., i, p. 258, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1146. **Lopidea media** (Say)

Say, Heter. N. Harm., p. 22, 1832; Fitch reprint, p. 786; Compl. Writ., i, p. [341, *Capsus*.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872.
Uhler, Wheeler's Rept. 100th Mer., v, p. 838, 1875.
Reuter, Caps. Am. Bor., p. 66, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 414, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1327.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 406, 1878.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 506, 1878.
Van Duzee, Can. Ent., xix, p. 70, 1887.
Harrington, Ottawa Nat., vi, p. 27, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 249, 1894.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894.
Gillette and Baker, Hemip. Colo., p. 30, 1895.
Montgomery, Ent. News, xiii, p. 13, 1902.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 48, 1905.
Moore, Can. Ent., xxxix, p. 163, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Parshley, Psyche, xxi, p. 141, 1914.
†*marginata* Slosson, Ent. News, xiii, p. 8, 1902.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Kans., Colo.

1147. **Lopidea confluenta** (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 788; Compl. Writ., i, p.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894. [343, *Capsus.*
‡*confluens* Reuter, Caps. Am. Bor., p. 66, 1876.
Uhler, Check List, p. 18, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 106, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Slosson, Ent. News, v, p. 5, 1894.
Gillette and Baker, Hemip. Colo., p. 30, 1895.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Van Duzee, Can. Ent., xliv, p. 320, 1912.
Parshley, Psyche, xxi, p. 141, 1914.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Ia., Kans., Colo., Mont., Texas.

1148. **Lopidea floridana** (Walk.)

Walker, Cat. Heter., vi, p. 97, 1873, *Capsus.*
Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 108, 1904.
Locality: Fla.

1149. **Lopidea robiniae** (Uhl.)

Uhler, Proc. Ent. Soc. Phila., i, p. 24, 1861, *Capsus.*
Van Duzee, Can. Ent., xix, p. 70, 1887 (as var.).
Wirtner, Ann. Carn. Mus., iii, p. 199, 1904 (as var.).
Leonard, Ent. News, xxvii, p. 51, 1916 (young).
Localities: Ont., N. Y., Pa., D. C., N. C., Ohio.

1150. **Lopidea marginata** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 249, 1894.
Gillette and Baker, Hemip. Colo., p. 30, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
[*obscura* Uhl. MS], Gillette and Baker, Hemip. Colo., p. 31, 1895.
Localities: Colo., Ariz., Calif.

1151. **Lopidea nigridea** Uhl.

Uhler, Hemip. Colo., p. 30, 1895.
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: Ia.?, Colo., Calif.

1152. **Lopidea cuneata** Van D.
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 79, 1910.
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n.s. 113, p. 40, 1913.
(Probably a misidentification of *nigridea* Uhl.)
Locality: N. Y.

[**Lopidea strigata** Uhl. MS]
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Locality: Ia.

[**Lopidea fuscicornis** Uhl. MS]
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898.
Smith, Cat. Ins. N. J., edn. 2, p. 128, 1900.
Localities: N. J., Ia.

Genus **Hadronema** Uhl.
Haplotype *militaris* Uhl

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1153. **Hadronema militaris** Uhl.
¶Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872, *Oncotylus*.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 412, 1872.
Uhler, Wheeler's Surv. 100th Mer., v, p. 838, pl. 42, fig. 12, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 317, 1876; iii, p. 415, 1877.
Distant, Biol. Centr. Am., Heter., i, p. 259, 1883.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891.
Townsend, Can. Ent., xxiv, p. 193, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 251, 1894.
Gillette and Baker, Hemip. Colo., p. 31, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 355, 1904.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Reuter, Ann. k. k. Natl. Hofms. Wien., xxii, p. 172, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: Mich., Ia., Kans., Colo., N. Mex., Calif.

1154. **Hadronema robusta** Uhl.
Riley, N. Am. Fauna, vii, p. 249, 1893 (a MS name).
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 250, 1894.
Gillette and Baker, Hemip. Colo., p. 32, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., iii, p. 28, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: Colo., Calif.

1155. **Hadronema princeps** Uhl.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 251, 1894.
Gillette and Baker, Hemip. Colo., p. 32, 1895.
Localities: Colo., Calif., Ore., Wash.

1156. **Hadronema picta** Uhl.

Uhler, Hemip. Colo., p. 31, 1895.
Tucker, Univ. Kans. Sci. Bul., iv, p. 60, 1907.
Localities: Dak., Colo., Nevada.

1157. **Hadronema festiva** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 80, 1910.
Locality: N. Mex.

DIVISION *ORTHOTYLARIA* Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 211, 212, 1916.
Litosomidae Douglas and Scott, Brit. Hemip., pp. 30, 334, 1865. (Family.)
Globicepidae Douglas and Scott, Brit. Hemip., pp. 31, 362, 1865. (Family.)

Genus **Cyllecoris** Hahn
Logotype *histrionicus* (Linn.)

Hahn, Wanz. Ins., ii, p. 97, 1834 (*Cylleocoris* in index).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 41, 1855 (subgenus of *Capsus*).
Dohrn, Cat. Hemip., p. 38, 1859.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906.
Van Duzee, Check List Hemip., p. 44, 1916.
‡*Cyllocoris* Spinola, Essai sur les Hémip., p. 188, 1837 (1840).
Fieber, Wien. Ent. Monat., ii, p. 312, 1858.
Fieber, Europ. Hemip., pp. 69, 282, 1861.
Douglas and Scott, Brit. Hemip., p. 367, 1865.
Thomson, Opusc. Ent., iv, p. 436, 1871.
Walker, Cat. Heter., vi, p. 43, 1873.
Reuter, Genera Cimic. Eur., p. 28, 1875.
Reuter, Crit. Rev. Caps., i, p. 89; ii, p. 114, 1875.
Reuter, Ent. Mo. Mag., xv, p. 115, 1878.
Reuter, Hemip. Gymn. Eur., iii, pp. 401, 546, pl. 1, figs. 13, 14, 1883.
Putou, Cat. Hémip. Palae., edn. 3, p. 55, 1886.
Atkinson, Cat. Capsidae, p. 130, 1889.
Hüeber, Synop. deut. Blindw., ii, p. 107, 1894?
Oshanin, Verz. Palae. Hemip., i, p. 826, 1909.
Oshanin, Kat. Palae. Hemip., p. 72, 1912.
Kelidocoris Kolenati, Melet. Ent., ii, p. 102, 1845 (type *histrionicus*).
‖*Perideris* Fieber, Verh. Zool.-Bot. Ges. Wien, xx, p. 249, 1870 (type *marginatus* Fieb.) [*ginatus* Fieb.].
Dryophilocoris Reuter, Genera Cimic. Eur., p. 30, 1875 (type *flavoquadri-maculatus* DeGeer) [*maculatus* DeGeer].
Camarocyphus Reuter, Of. Finska Soc. Forh., xxii, p. 21, 1880 (type *nigro-gularis* Reut.) Reuter *in* Zool. Jahrsb. for 1880, p. 140. [*gularis* Reut.].
Mimoperideris Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906 (n.n. for *Perideris* Fieb.) [for *Perideris* Fieb.].

1158. **Cyllecoris histrionicus** (Linn.)

Linnaeus, Syst. Nat., edn. 12, i, p. 728, 1767, *Cimex*.
Herrich-Schaeffer, Nomen. Ent., i, p. 48, 1835.
Burmeister, Handb. d. Ent., ii, p. 267, 1835, *Phytocoris*.
Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Phytocoris*.

Meyer-Duer, Verz. Schw. Rhyn., p. 90, 1843, *Capsus*.
Kolenati, Melet. Ent., ii, p. 103, 1845, *Polymerus* (*Kelidocoris*).
Sahlberg, Monog. Geoc. Fenn., p. 96, 1848, *Capsus*.
Herrich-Schaeffer, Wanz. Ins., Index, p. 36, 1853, *Capsus*.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 43, 1855, *Capsus*.
Flor, Rhyn. Livl., i, p. 475, 1860, *Capsus*.
Fieber, Europ. Hemip., p. 282, 1861.
Douglas and Scott, Brit. Hemip., p. 368, pl. 12, fig. 3, 1865.
Thomson, Opusc. Ent., iv, p. 436, 1871, *Capsus* (*Orthotylus*).
Reuter, Rev. Crit. Caps., ii, p. 115, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 406, 558, pl. 5, fig. 25, 1883.
Reuter, Rev. Synon., p. 299, No. 279, 1888.
Saunders, Heter. Brit. Isds., p. 277, pl. 25, fig. 8, 1892.
Hüeber, Synop. deut. Blindw., ii, p. 109, 1894?
Banks, Cat. Neark. Hemip., p. 33, 1910.

cantharinus (Muller), Zool. Danic. Prodr., p. 108, 1776, *Cimex*.
cordiger (Goeze), Ent. Beytr., ii, p. 266, 1778, *Cimex*.
agilis (Fabricius), Spec. Ins., p. 374, 1781, *Cimex*.
Fabricius, Ent. Syst., iv, p. 182, 1794, *Lygaeus*.
Fabricius, Syst. Rhyng., p. 247, 1803, *Capsus*.
Wolff, Icon. Cimic., iv, p. 153, fig. 147, 1804, *Lygaeus*.
Latreille, Hist. Nat. Crust. Ins., xii, p. 233, 1804, *Capsus*.
Fallén, Monog. Cimic. Suec., p. 100, 1807, *Capsus*.
Fallén, Hemip. Suec., Cimic., p. 120, 1829, *Capsus*.
Hahn, Wanz. Ins., ii, p. 98, 1834.
Costa, Cimic. Neap., Cent., i, p. 50, 1838, *Phytocoris*.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 122, 1840.
cordatus (Geoffroy) *in* Fourcroy, Ent. Paris., p. 206, 1785, *Cimex*. [*Cimex*.
leucozonias (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, p. 2162, 1788.
vittatus (Gmelin) *in* Linnaeus, Syst. Nat., edn. 13, i, p. 2166, 1788, *Cimex*.
Donovan, Nat. Hist. Brit. Ins., vii, p. 252, 1798, *Cimex*.
†*fulvipes* (Schrank), Fauna Boica, ii, p. 93, 1801, *Cimex*.
Localities: "E. St.," Banks. (Europe.)

Genus **Pseudoxenetus** Reut.
Logotype *regalis* (Uhl.)

Reuter, Neark. Caps., p. 66, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1159. **Pseudoxenetus regalis** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 80, 1890, *Xenetus*.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Stenidea*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Md., Pa., Ga., Fla., Mich., Ill.

1160. **Pseudoxenetus scutellatus** (Uhl.)

?Riley, 5th Rept. Nox. Ins. Mo., p. 154, 1873, *Cyllocoris* (a MS name by Uhler).
Uhler, Trans. Md. Acad. Sci., i, p. 81, 1890, *Xenetus*.
Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Sthenidea*.
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Xenetus*.
Smith, Cat. Ins. N. J., edn. 3, p. 165, 1910, *Xenetus*.
Localities: Ont., N. H., Mass., Conn., N. Y., Pa., Md., N. C., Va., Ill.

Genus **Globiceps** Lep. & Serv.
Haplotype *capito* L. & S. = *sphegiformis* Rossi

Le Peletier and Serville, Encyc. Méth., x, p. 326, 1825.
Amyot and Serville, Hémip., p. 282, 1843.
Fieber, Wien. Ent. Monat., ii, p. 313, 1858.
Fieber, Europ. Hemip., pp. 69, 282, 1861.
Douglas and Scott, Brit. Hemip., p. 362, 1865.
Thomson, Opusc. Ent., iv, p. 436, 1871.
Walker, Cat. Heter., vi, p. 43, 1873.
Reuter, Genera Cimic. Eur., p. 28, 1875.
Reuter, Crit. Rev. Caps., i, p. 89; ii, p. 116, 1875.
Reuter, Ent. Mo. Mag., xv, p. 115, 1878.
Reuter, Hemip. Gymn. Eur., iii, pp. 386, 545, 1883.
Hüeber, Synop. deut. Bildw., ii, pp. 106, 124, 1894?
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 51, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916. [genus).
†*Kelidocoris* Reuter, Rev. Crit. Caps., i, p. 90; ii, p. 117, 1875 (as sub-

1161. **Globiceps flavomaculatus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 182, 1794, *Lygaeus.*
Fabricius, Syst. Rhyn., p. 247, 1803, *Capsus.*
Fallén, Monog. Cimic. Suec., p. 100, 1807, *Capsus.*
Fallén, Hemip. Suec. Cimic., p. 120, 1829, *Capsus.*
Costa, Cimic. Reg. Neap., Cent., i, p. 50, 1838, *Phytocoris.*
Zetterstedt, Ins. Lapp., column 278, 1840, *Capsus.*
Blanchard, Hist. des Ins., Hémip., p. 138, 1840, *Capsus.*
Meyer–Duer, Verz. Schw. Rhyn., p. 91, 1843.
Kolenati, Melet. Ent., ii, p. 103, 1845, *Polymerus* (*Kelidocoris*).
Sahlberg, Monog. Geoc. Fenn., p. 96, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 46, 1855, *Capsus* (*Cyllocoris*).
Flor, Rhyn. Livl., i, p. 469, 1860, *Capsus.*
Thomson, Opusc. Ent., iv, p. 436, 1871, *Capsus* (*Orthotylus*).
Reuter, Rev. Crit. Caps., ii, p. 117, 1875 (subgenus *Kelidocoris*).
Reuter, Hemip. Gymn. Eur., iii, pp. 395, 557, pl. 5, fig. 19, 1883.
Reuter, Rev. Synon., p. 298, No. 278, 1888.
Uhler, Check List, p. 20, 1886.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Saunders, Heter. Brit. Isds., p. 280, pl. 26, fig. 1, 1892.
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
selectus Fieber, Wien. Ent. Monat., ii, p. 333, 1858.
Fieber, Europ. Hemip., p. 284, 1861.
Douglas and Scott, Brit. Hemip., p. 363, 1865.
Puton, Cat. Hémip. Palae., edn. 3, p. 55, 1886.
†*distinguendus* Vollenhoven, Tidj. v. Ent., xvii, p. 166, 1878.
Localities: Ont., Pa.(?) (Europe.)

1162. **Globiceps angustatus** Uhl.

Uhler, Hemip. Colo., p. 42, 1895.
Locality: Colo.

Genus **Paraproba** Dist.
Logotype *fasciata* Dist.

Distant, Biol. Centr. Am., Heter., i, p. 270, 1884.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 138, 1906 (names *fasciata* type).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 164, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 212, 1916.

1163. **Paraproba pendula** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 25, 1914.
Locality: Calif.

1164. **Paraproba hamata** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912, *Diaphnidia.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914, *Diaphnidia.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

Genus **Diaphnidia** Uhl.
Logotype *debilis* Uhl.

Uhler, Hemip. Colo., p. 43, 1895.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906 (names *debilis* type).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1165. **Diaphnidia debilis** Uhl.

Uhler, Hemip. Colo., p. 43, 1895.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Gibson, Rept. Ent. Soc., Ont. for 1910, p. 125, 1911.
Localities: Ont., Mass., N. Y., D. C., Ohio, Colo., Calif.

1166. **Diaphnidia pellucida** Uhl.

Uhler, Hemip. Colo., p. 44, 1895.
Wirtner, Ann. Carn. Mus., ii, p. 200, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Moore, Can. Ent., xxxix, p. 162, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Gibson, Rept. Ent. Soc. Ont. for 1910, p. 125, 1911.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912.
Parshley, Psyche, xxi, p. 142, 1914.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., D. C., Ohio, Colo., Calif.

1167. **Diaphnidia provancheri** (Burque)

Burque *in* Provancher, Pet. Faune Ent. Can., iii, p. 144, 1887, *Malacocoris.*
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 489, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Localities: Quebec, N. H., N. Y., Calif.

1168. **Diaphnidia capitata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 490, 1912.
Localities: Ont., N. Y.

Genus **Hyalochloria** Reut.
Logotype *caviceps* Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 18, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 218, 1916 (cites [*caviceps* as type).

1168¼. **Hyalochloria caviceps** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 20, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 218, 1916.
Localities: Fla. (West Indies.)

1168½. **Hyalochloria bella** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 217, 1916.
Locality: Calif.

Genus **Reuteria** Put.
Haplotype *marqueti* Put. = *irrorata* (Say)

Puton, Pet. Nouv. Ent., i, p. 519, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 325, 544, 1883.
Hüeber, Synop. deut. Blindw., ii, pp. 105, 239, 1894?
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1169. **Reuteria irrorata** (Say)

Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 790; Comp. Writ., i, p. 346, [*Capsus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 507, 1878, *Malacocoris.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Malacocoris.*
Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Malacocoris.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 267, 1894, *Malacocoris.*
Osborn, Ohio Nat., i, p. 12, 1900, *Malacocoris.*
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Malacocoris.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Malacocoris.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907, *Malacocoris.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 10, 1908.
Reuter, Neark. Caps., p. 70, 1909.
Oshanin, Verz. Palae. Hemip., i, p. 854, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 59, 1912.
marqueti Puton, Pet. Nouv. Ent., i, p. 519, 1875.
Reuter, Hemip. Gymn. Eur., iii, p. 325, 1883.
Localities: Ont., N. Y., N. J., Pa., Md., D. C., Ohio, Kans., Ia. (Mexico, Europe.)

Genus **Orthotylus** Fieb.
Logotype *nassatus* (Fabr.)

Fieber, Wien. Ent. Monat., ii, p. 315, 1858.
Fieber, Europ. Hemip., pp. 71, 288, 1861.
Thomson, Opusc. Ent., iv, pp. 434, 438, 1871.
Reuter, Genera Cimic. Eur., p. 32, 1875.
Reuter, Rev. Crit. Caps., i, p. 91; ii, p. 129, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 342, 545, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 138, 1887.
Hüeber, Synop. deut. Blindw., ii, pp. 106, 153, 1894?

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *nassatus* (Fabr.)
Oshanin, Verz. Palae. Hemip., i, p. 837, 1909. [type).
Oshanin, Kat. Palae. Hemip., p. 73, 1912.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 60, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.
Van Duzee, Check List Hemip., p. 44, 1916. [species).
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 87, 1916 (monograph N. Am.

?Tichorhinus Fieber, Wien. Ent. Monat., ii, p. 314, 1858 (type *ericetorum* [Fall.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *ericetorum*
Kirkaldy, Proc. Hawai. Ent. Soc., i, p. 197, 1908. [Fall. type).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 150, 1910.

Pachylops Fieber, Wien. Ent. Monat., ii, p. 314, 1858 (haplotype *chloropterus* Kirsch.).
Fieber, Europ. Hemip., pp. 70, 285, 286, 1861.

Litocoris Fieber, Europ. Hemip., pp. 70, 287, 2861 (n.n. for *Tichorhinus* [Fieb.).

Litosoma Douglas and Scott, Brit. Hemip., p. 334, 1865 (type *nassatus* [Fall. = *marginalis* Reut.).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *marginatus* [Reut. type).

‖*Allocatus* Puton, Ann. Soc. Ent. Fr., ser. 5, iv, p. 218, 1874 (haplotype [*rubidus* Put.).

Melanotrichus Reuter, Genera Cimic. Eur., p. 35, 1875 (logotype *flavosparsus* Sahlb.).
Reuter, Rev. Crit. Caps., ii, p. 135, 1875.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 127, 1906 (names *flavosparsus* [Sahlb. type).

Halocapsus Puton, Ann. Soc. Ent. Fr., ser. 5, viii, Bul., p. xxxiii, 1878 [(n.n. for *Allocotus* Put.).

Subgenus **Orthotylus** Reut.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 88 (group I), p. 92, 1916.

1169¼. **Orthotylus insignis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 92, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

1169½. **Orthotylus tibialis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 93, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

1169¾. **Orthotylus ferox** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 94, 1916.
Locality: Calif.

1170. **Orthotylus viridicatus** Uhl.

Uhler, Hemip. Colo., p. 48, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 95, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: Colo., Idaho, Calif.

1171. **Orthotylus coagulatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 417, 1877, *Macrocoleus.*
Provancher, Pet. Faune Ent. Can., iii, p. 150, 1887, *Macrocoleus.*
Van Duzee, Can. Ent., xix, p. 72, 1887, *Macrocoleus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Macrocoleus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 4, p. 123, 1893, *Macrocoleus.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894, *Macrocoleus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Macrocoleus.*
Slosson, Ent. News, vi, p. 321, 1895, *Macrocoleus.*
Gillette and Baker, Hemip. Colo., p. 50, 1895, *Macrocoleus.*
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Macrocoleus.*
Snow, Univ. Kans. Sci. Bul., ii, p. 384, 1904, *Macrocoleus.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906, *Macrocoleus.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Megrocoleus.*
Reuter, Neark. Caps., p. 68, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Megalocoleus.*
Van Duzee, Can. Ent., xliv, p. 322, 1912, *Macrocoleus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Parshley, Psyche, xxi, p. 142, 1914, *Megalocoleus.*
Parshley, Psyche, xxii, p. 23, 1915.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 96, 1916.

biguttatus Reuter, Neark. Caps., p. 69, 1909.

Localities: Colo., Ariz., Calif.

[Eastern references probably pertain to the next species.]

1172. **Orthotylus flavosparsus** (Sahlbg.)

Sahlberg, Acta Soc. Sci. Fenn., i, p. 411, 1842, *Phytocoris.*
Sahlberg, Monog. Geoc. Fenn., p. 103, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 89, 1853, *Capsus.*
Flor, Rhyn. Livl., i, p. 582, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 288, 1861.
Douglas and Scott, Brit. Hemip., p. 341, 1865, *Litosoma.*
Reuter, Genera Cimic. Eur., p. 35, 1875.
Reuter, Rev. Crit. Caps., ii, p. 135, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 360, 552, 1883.
Saunders, Heter. Brit. Isds., pp. 285, 591, pl. 27, fig. 1, 1892.
Hüeber, Synop. deut. Blindw., ii, pp. 160, 189, 1894?
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Reuter, Neark. Caps., p. 68, 1909.
Smith, Cat. Ins. N. J., edn. 3, pl. 161, 1910.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Parshley, Psyche, xxi, p. 142, 1914.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 97, 1916.

viridipennis Dahlbom, Vet. Akad. Handl. for 1850, p. 212, *Phytocoris.*
†*prasina* Douglas and Scott, Brit. Hemip., p. 344, 1865, *Litosoma.*
unicolor Provancher, Nat. Can., iv, p. 105, 1872, *Lygus.*
†*sericeus* Provancher, Pet. Faune Ent. Can., iii, p. 127, 1887, *Poeciloscytus.*
†*pulchellus* Provancher, Pet. Faune Ent. Can., iii, p. 148, 1887, *Oncotylus.*
†*chlorionis* Horvath, Ann. Mus. Natl. Hung., vi, pp. 5, 565, 1908.

Localities: Quebec, Ont., Me., N. Y., N. J., D. C., Va., Ohio, Kans. (Europe.)

1173. **Orthotylus chlorionis** (Say)

Say, Heter. N. Harm., p. 25, 1832; Fitch reprint, p. 791; Compl. Writ., i, [p. 346, *Capsus.*
Uhler, Check List, p. 18, 1886, *Lygus?*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Moore, Can. Ent., xxxix, p. 162, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Reuter, Neark. Caps., p. 69, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 99, 1916.
Localities: Quebec, Ont., N. Y., D. C., Calif.

1173¼. **Orthotylus fraternus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 99, 1916.
†*inconspicuus* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 27, 1914.
Locality: Calif.

1173½. **Orthotylus uniformis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 100, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Localities: N. Y., Calif.

1174. **Orthotylus translucens** Tuck.

Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 101, 1916.
Localities: N. Y., Colo.

1175. **Orthotylus diaphanus** (Kirsch.)

Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 78, 145, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 613, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 290, 1861.
Reuter, Hemip. Gymn. Eur., iii, pp. 358, 551, pl. 5, fig. 15, 1883.
Saunders, Heter. Brit. Isds., pp. 285, 287, 1892.
Hüeber, Synop. deut. Blindw., ii, pp. 159, 180, 1894?
Heidemann, *in* Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
viridinervis Thomson, Opusc. Ent., iv, p. 456, 1871.
Localities: Kans.(?). (Europe.)

1175$\frac{1}{16}$. **Orthotylus senectus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 102, 1916.
Locality: Colo.

1175⅛. **Orthotylus viridis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 103, 1916.
Localities: N. Y., N. C.

1175¼. **Orthotylus nigrinasi** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 104, 1916.
Locality: Texas.

1175⅜. **Orthotylus ovatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 105, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 241, 1916.
Locality: Calif.

1175½. **Orthotylus catulus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 106, 1916.
Locality: N. Y.

[**Orthotylus discoidalis** Uhl. MS]

Riley, 5th Rept. Nox. Ins. Mo., p. 154, 1873.
Locality: Mo.

Subgenus **Diommatus** Uhl.
Haplotype *congrex* Uhl. = *dorsalis* Prov.

Uhler, Ent. Am., iii, p. 32, 1887 (as genus).
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 89 (group III), p. 107, 1916.

1175⅝. **Orthotylus languidus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 107, 1916.
Locality: Calif.

1175¾. **Orthotylus formosus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 108, 1916.
Locality: Calif.

1175⅞. **Orthotylus modestus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 109, 1916.
Localities: N. Y., Pa.

1176. **Orthotylus dorsalis** (Prov.)

Provancher, Nat. Can., iv, p. 104, 1872, *Lygus.*
Provancher, Pet. Faune Ent. Can., iii, p. 138, 1887.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 110, 1916.
congrex (Uhler), Ent. Am., iii, p. 33, 1887, *Diommatus.*
Van Duzee, Can. Ent., xxi, p. 3, 1889, *Diommatus.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 273, 1893, *Diommatus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 176, 1894, *Diommatus.*
Gillette and Baker, Hemip. Colo., p. 45, 1895, *Diommatus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Diommatus.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Diommatus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Diommatus.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Diommatus.*
Reuter, Neark. Caps., p. 67, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Diommatus.*
Parshley, Psyche, xxi, p. 142, 1914.
Localities: Quebec, Ont., Me., N. Y., N. J., Utah, Colo., Kans.

1177. **Orthotylus marginatus** (Uhl.)

Uhler, Hemip. Colo., p. 43, 1895, *Cyrtorrhinus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Cyrtorrhinus.*
Van Duzee, Can. Ent., xl, p. 113, 1908, *Cyrtorrhinus.*
Reuter, Neark. Caps., p. 67, 1909, *Cyrtorrhinus?*
Parshley, Psyche, xxi, p. 142, 1914, *Cyrtorrhinus.*
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 112, 1916.
Localities: Quebec, Ont., Me., N. Y., Colo.

1177¼. **Orthotylus molliculus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 113, 1916.
Locality: Calif.

1177½. **Orthotylus affinis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 114, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. But., i, p. 241, 1916.
Locality: Calif.

1178. **Orthotylus submarginatus** (Say)

Say, Heter. N. Harm., p. 23, 1832; Fitch reprint, p. 788; Compl. Writ., i, p. [344, *Capsus.*
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 123, 1916.
Localities: R. I., N. Y., Ind., Mo.

1178¼. **Orthotylus candidatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 124, 1916.
Locality: N. H.

1178½. **Orthotylus necopinus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 125, 1916.
Localities: N. H., N. Y.

1178¾. **Orthotylus fumidus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 127, 1916.
Locality: Colo.

1179. **Orthotylus angulatus** (Uhl.)

Uhler, Hemip. Colo., p. 44, 1895, *Diommatus.*
Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 115, 1916.
Locality: Colo.

a. var. **brunneus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 116, 1916.
Locality: Calif.

1179⅛. **Orthotylus cuneatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 117, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.
Locality: Calif.

1179¼. **Orthotylus pullatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 118, 1916.
Locality: Calif.

1179⅜. **Orthotylus cruciatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 119, 1916.
Localities: Quebec, Me., Vt., Mass.

1179½. **Orthotylus lateralis** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 120, 1916.
Locality: Colo.

1179⅝. **Orthotylus knighti** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 121, 1916.
Locality: N. Y.

1179¾. **Orthotylus ornatus** Van D.

Van Duzee, Proc. Calif. Acad. Sci., ser. 4, vi, p. 122, 1916.
Locality: N. Y.

1180. **Orthotylus inconspicuus** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 376, 1893, *Asciodema.*
Reuter, Neark. Caps., p. 69, 1909.
Locality: Utah.

[**Orthotylus alternatus** Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.
Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892.
Localities: Ont., D. C.

[**Orthotylus delicatus** Uhl. MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.
Locality: D. C.

Genus **Ilnacora** Reut.
Haplotype *divisa* Reut.

Reuter, Caps. Am. Bor., p. 85, 1876.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

Subgenus **Ilnacora** Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.
Sthenarops Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 418, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 133, 1887.

1181. **Ilnacora divisa** Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.
Gillette and Baker, Hemip. Colo., p. 40, 1895.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
Localities: N. J., Kans., Texas.

1182. **Ilnacora chloris** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 419, 1877, *Sthenarops.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893, *Sthenarops.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894.
Gillette and Baker, Hemip. Colo., p. 40, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904, *Sthenarops.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Localities Kans., Colo., N. Mex. (Mexico.)

1183. **Ilnacora viridis** Uhl.

Uhler, Hemip. Colo., p. 41, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.
Localities: Colo., N. Mex.

Subgenus **Corinala** Reut.
Haplotype *stalii* Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.

1184. **Ilnacora stalii** Reut.

Reuter, Caps. Am. Bor., p. 86, 1876.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Gillette and Baker, Hemip. Colo., p. 40, 1895.
Seiss, Ent. News, viii, p. 67, 1897.
Osborn, Ohio Nat., i, p. 12, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910.
†*psalliodes* Provancher, Pet. Faune Ent. Can., iii, p. 146, 1877, *Parthenicus.*
Localities: N. Y., N. J., Pa., Ohio, Kans., Colo., Texas.

1185. **Ilnacora malina** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 419, 1877, *Sthenarops.*
Distant, Biol. Centr. Am., Heter., i, p. 431, 1893, *Sthenarops.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 178, 1894, *Sthenarops.*
Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Sthenarops.*
Slosson, Ent. News, xi, p. 323, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 200, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905, *Sthenarops.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 59, 1907.
Tucker, Trans. Kans. Acad. Sci., xx, pt. 2, p. 191, 1907.
Reuter, Ann. k. k. Natl. Hofms. Wien, xxii, p. 174, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 161, 1910. [*Calocoris? inustus* Distant, Biol. Centr. Am., Heter., i, p. 267, pl. 23, fig. 17, 1884,
†*basalis* Provancher, Pet. Faune Ent. Can., iii, p. 128, 1887, *Poeciloscytus.*
Localities: N. H., Mass., N. Y., N. J., Pa., Ia., Kans.

Genus **Semium** Reut.
Haplotype *hirtum* Reut.

Reuter, Caps. Am. Bor., p. 80, 1876.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1186. **Semium hirtum** Reut.

Reuter, Caps. Am. Bor., p. 80, 1876.
Reuter, Neark. Caps., p. 73, 1909. [*Eccritotarsus.*
elegans Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885 (a MS name),
Uhler, Ent. Am., iii, p. 149, 1887, *Eccritotarsus* (described).
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Eccritotarsus.*
Osborn, Ohio Nat., i, p. 12, 1900, *Eccritotarsus.*
Wirtner, Ann. Carn. Mus., iii, p. 195, 1904, *Eccritotarsus.*
Localities: N. Y., Pa., D. C., Ohio, Ill., Ia., Kans., Texas, Calif.

Genus **Mecomma** Fieb.
Haplotype *ambulans* (Fall.)

Fieber, Wien. Ent. Monat., ii, p. 313, 1858.
Fieber, Europ. Hemip., pp. 69, 284, 1861.
Reuter, Hemip. Gymn. Eur., iii, pp. 383, 545, 1883.
Hüeber, Synop. deut. Blindw., ii, pp. 106, 143, 1894?

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 834, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.
‖*Sphyracephalus* Douglas and Scott, Brit. Hemip., p. 348, 1865 (haplotype [*ambulans* Fall.).
Sphyrops Douglas and Scott, Ent. Mo. Mag., iii, p. 16, 1866 (n.n. for [*Sphyracephalus* D. & S.).
†*Chlamydatus* Reuter, Genera Cimic. Eur., p. 30, 1875.
Reuter, Rev. Crit. Caps., ii, pp. 90, 124, 1875.

1187. **Mecomma ambulans** (Fall.)

Fallén, Monog. Cimic. Suec., p. 104, 1807, *Capsus.*
Fallén, Hemip. Suec., Cimic., p. 126, 1829, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., iii, p. 109, figs. 335–337, 1835, *Capsus.*
Sahlberg, Monog. Geoc. Fenn., p. 94, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., pp. 76, 114, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 577, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 284, 1861.
Douglas and Scott, Brit. Hemip., p. 349, 1865, *Sphyracephalus.*
Reuter, Rev. Crit. Caps., ii, p. 124, 1875, *Chlamydatus.*
Reuter, Hemip. Gymn. Eur., iii, pp. 384, 555, pl. 2, figs. 1, 2, 1883, *Chlamy-*
Uhler, Check List, p. 20, 1886. [*datus.*
Saunders, Heter. Brit. Isds., p. 280, pl. 26, figs. 3, 4, 1892.
Hüeber, Synop. deut. Blindw., ii, p. 144, 1894?
ochripes Curtis, Brit. Ent., xv, pl. 693, 1838, *Chlamydatus.*
nigritula Zetterstedt, Ins. Lapp., column 279, 1840.
dubia Zetterstedt, Ins. Lapp., column 279, 1840 (immature).
Localities: "Brit. Am." (Europe.)

1188. **Mecomma gilvipes** (Stål)

Stål, Stet. Ent. Zeit., xix, p. 187, 1858, *Leptomerocoris gilvipes.*
Reuter, Hemip. Gymn. Eur., iii, pp. 386, 555, pl. 2, fig. 6, 1883.
Uhler, Check List, p. 20, 1886.
Van Duzee, Can. Ent., xxi, p. 4, 1889.
Heidemann, Proc. Wash. Acad. Sci., ii, p. 504, 1900.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 551, 1905.
Oshanin, Verz. Palae. Hemip., p. 835, note, 1909.
Localities: Ont., N. H., N. Y., Wash., Alaska.

Genus **Orthocephalus** Fieb.
Logotype *brevis* (Panz.)

Fieber, Wien. Ent. Monat., ii, p. 316, 1858.
Fieber, Europ. Hemip., pp. 71, 291, 1861.
Douglas and Scott, Brit. Hemip., p. 429, 1865.
Thomson, Opusc. Ent., iv, p. 432, 1871.
Reuter, Genera Cimic. Eur., p. 24, 1875.
Reuter, Rev. Crit. Caps., i, p. 86; ii, p. 93, 1875.
?Provancher, Pet. Faune Ent. Can., iii, p. 136, 1887.
Reuter, Hemip. Gymn. Eur., iv, pp. 43, 158, 1891.
Hüeber, Synop. deut. Blindw., ii, pp. 3, 15, 1894?

1189. **Orthocephalus saltator** (Hahn)

Hahn, Wanz. Ins., iii, p. 11, fig. 236, 1835, *Capsus.*
Fieber, Europ. Hemip., p. 293, 1861.
Douglas and Scott, Brit. Hemip., p. 431, pl. 14, fig. 2, 1865.
Thomson, Opusc. Ent., iv, p. 432, 1871.
Reuter, Rev. Crit. Caps., ii, p. 95, 1875.
Uhler, Check List, p. 20, 1886.
Reuter, Hemip. Gymn. Europ., iv, pp. 51, 165, pl. 1, fig. 10; pl. 4, fig. 1, 1891.
Saunders, Heter. Brit. Isds., p. 270, pl. 25, fig. 2, 1892.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
‖*mutabilis* var. Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus.*
mutabilis Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Halticus.*
Sahlberg, Monog. Geoc. Fenn., p. 120, 1848, *Capsus.*
Flor, Rhyn. Livl., i, p. 567, 1860, *Capsus.*
hirtus Curtis, Brit. Ent., xv, pl. 693, 1838, *Capsus.* [*Pachytoma.*
major Costa, Cimic. Reg. Neap., Cent. iii, p. 278, pl. 3, figs. 5, 6, 1852,
infuscatus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 190, 1869, *Globiceps.*
Localities: Alaska. (Europe, Siberia.)

Orthocephalus sp. nov. Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893.
Locality: Utah.

Genus **Pseudopsallus** Van D.
Orthotype *angularis* Uhl.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 213, 224, 1916.

1190. **Pseudopsallus angularis** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 272, 1894, *Macrotylus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914, *Macrotylus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 224, 1916.
Locality: Calif.

1191. **Pseudopsallus verticalis** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 272, 1894, *Macrotylus.*
Gillette and Baker, Hemip. Colo., p. 51, 1895, *Macrotylus.* [*Macrotylus.*
Hunter and Pratt, U. S. Dept. Agr., Div. Ent., Bul. n.s. 113, p. 41, 1913,
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Plagiognathus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 225, 1916.
Localities: Colo., N. Mex., Calif.

Genus **Labopidea** Uhl.
Haplotype *chloriza* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 415, 1877. [(monograph).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 214, 218, 1916

1192. **Labopidea nigripes** (Reut.)

Reuter, Neark. Caps., p. 68, 1909, *Orthotylus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 219, 242, 1916.
Localities: Nevada, Calif., Br. Col.

1193. **Labopidea simplex** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 417, 1872, *Tinicephalus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 418, 1877, *Tini-*
Gillette and Baker, Hemip. Colo., p. 42, 1895, *Tinicephalus.* [*cephalus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 220, 1916.
Van Duzee, Psyche, xxiii, p. 141, 1916.
grisea Reuter, Neark. Caps., p. 73, 1909, *Hyoidea.*
Localities: Wyo., Colo., N. Mex., Calif.

1194. **Labopidea chloriza** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 416, 1877.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 268, 1894.
Gillette and Baker, Hemip. Colo., p. 46, 1895.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 221, 1916 (notice).
Localities: Colo., Utah.

1195. **Labopidea sericata** (Uhl.)

Uhler, Hemip. Colo., p. 49, 1895, *Oncotylus.*
Reuter, Neark. Caps., p. 69, 1909, *Orthotylus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 220, 1916.
Localities: Colo., Nev.

1195½. **Labopidea atriseta** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 221, 1916.
Locality: Calif.

Genus **Macrotyloides** Van D.
Orthotype *vestitus* Uhl.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 214, 222, 1916.

1196. **Macrotyloides vestitus** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 88, 1890, *Macrotylus.*
?Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Macrotylus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Macrotylus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 222, 1916.
Localities: Calif. (Pa.?)

1196½. **Macrotyloides apicalis** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 223, 1916.
Locality: Calif.

Genus **Argyrocoris** Van D.
Haplotype *scurrilis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 478, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

1197. **Argyrocoris scurrilis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 479, 1912.
Locality: Ariz.

1197½. **Argyrocoris femoratus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 225, 1916.
Locality: Calif.

Genus **Parthenicus** Reut.
Haplotype *psalliodes* Reut.

Reuter, Caps. Am. Bor., p. 84, 1876.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 213, 1916.

1198. **Parthenicus psalliodes** Reut.
Reuter, Caps. Am. Bor., p. 85, 1876.
Locality: Texas.

1199. **Parthenicus vaccini** (Van D.)
Van Duzee, Pomona Jl. Ent. Zool., vii, p. 117, 1915, *Psallus*.
Van Duzee, Check List Hemip., p. 45, 1916.
Locality: Mass.

1199½. **Parthenicus picicollis** Van D.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 226, 1916.
Locality: Calif.

Subfamily PHYLINAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 110, 111, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 202, 1916.
Van Duzee, Check List Hemip., p. 45, 1916.
Plagiognathinae Oshanin, Kat. Palae. Hemip., p. 77, 1912.

TRIBE *PHYLINI* (Reut.)

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 112, 1910, Division *Phylaria*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 202, 214, 1916.
[Tribe *Boopidocorini* Reut. (Kirk.) is palaearctic.]

DIVISION *ONCOTYLARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 32, 384, 1865, Fam. *Oncotylidae*.
Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 138, 1875.
Reuter, Hemip. Gymn. Eur., ii, p. 193, 1879; iii, p. 568, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 100, 1886, *Oncotylides*.
Reuter, Festsch. f. Palmen, i, pp. 16, 27, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 125, 1906, Tribe *Oncotylini*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.
Xenocorini Kirkaldy, Can. Ent., xxxviii, p. 370, 1906. (Tribe.)

Genus **Macrotylus** Fieb.
Haplotype *luniger* Fieb.

Fieber, Wien. Ent. Monat., ii, p. 325, 1858.
Fieber, Europ. Hemip., pp. 76, 317, 1861.
Thomson, Opusc. Ent., iv, p. 452, 1871.
Reuter, Genera Cimic. Eur., p. 43, 1875.
Reuter, Rev. Crit. Caps., i, p. 96, 1875.
Reuter, Hemip. Gymn. Eur., ii, p. 194, 1879; iii, p. 529, 1883.
Hüeber, Synop. deut. Blindw., ii, p. 243, 1894?
Oshanin, Verz. Palae. Hemip., i, p. 882, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 5, 1916 (monograph).
Mermimerus Sahlberg, Not. Soc. Fauna Flora Fenn., xi, p. 293, 1870 (type [*cruciatus* Sahlbg.).
Reuter, Genera Cimic. Eur., p. 43, 1875 (as subgenus).

1200. **Macrotylus 6-guttatus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 150, 1887, *Amblytylus*.
Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 6, 1916.
Localities: Quebec, N. Y.

1201. **Macrotylus amoenus** Reut.

Reuter, Neark. Caps., p. 75, 1909.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 6, 1916.
Macrotylus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, No. 156, 1909.
Localities: Conn., Pa., Fla.

1201¼. **Macrotylus multipunctatus** Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 7, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.
Locality: Calif.

1201½. **Macrotylus dorsalis** Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 7, 1916.
Locality: Calif.

1201¾. **Macrotylus essigi** Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 8, 1916.
Locality: Calif.

1202. **Macrotylus lineolatus** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 270, 1894.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 9, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.
Locality: Calif.

1203. **Macrotylus herrichi** (Reut.)

Reuter, Not. Säll. Fauna Flora Fenn. Forh., xiv, p. 24, 1873, *Hoplomachus*.
Reuter, Genera Cimic. Eur., p. 39, 1875, *Hoplomachus*.
Reuter, Hemip. Gymn. Eur., ii, p. 200, 1879; iii, p. 534, 1883.
‖*bilineatus* Herrich–Schaeffer, Wanz. Ins., iii, p. 70, fig. 285, 1836, *Capsus*.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 82, No. 105, 1855, *Capsus*.
Fieber, Europ. Hemip., p. 316, 1861, *Hoplomachus*.
Uhler, Check List, p. 20, 1886, *Hoplomachus*.
Localities: "Brit. Am." (Europe.)

1203½. **Macrotylus infuscatus** Van D.

Van Duzee, Pomona Jl. Ent. Zool., viii, p. 10, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.
Locality: Calif.

1204. **Macrotylus tristis Uhl.**

Uhler, Trans. Md. Acad. Sci., i, p. 87, 1890.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 28, 1914.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 11, 1916.
Localities: Colo., Calif.

1205. **Macrotylus regalis** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 86, 1890.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
Van Duzee, Pomona Jl. Ent. Zool., viii, p. 11, 1916.
Locality: Calif.

[**Macrotylus guttatus** Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.
[May be *6-guttatus* Prov.]
Locality: Ont.

[**Macrotylus desiccatus** Uhl. MS]

Townsend, Can. Ent., xxiv, p. 194, 1892.
Locality: N. Mex.

Genus **Hoplomachidea** Reut.
Orthotype *consors* Uhl.

Reuter, Neark. Caps., p. 75, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

1206. **Hoplomachidea consors** (Uhl.)

Uhler, N. Am. Fauna, vii, p. 264, 1893, *Haplomachus.*
Reuter, Neark. Caps., p. 75, 1909 (as type).
Locality: Calif.

Genus **Lopus** Hahn
Logotype *chrysanthemi* Hahn = *decolor* Fall.

Hahn, Wanz. Ins., i, p. 143, 1832 (refers to figures on pl. 1).
Reuter, Wien. Ent. Zeit., xxv, p. 216, 1906.
Kirkaldy, Can Ent., xxxviii, p. 376, 1906.
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 146, 1910.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 41, 1912.
Onychumenus Reuter, Hemip. Gymn. Eur., ii, p. 286, 1879 (type *decolor* [Fall.).
Reuter, Hemip. Gymn. Eur., iii, p. 529, 1883.
Hüeber, Synop. deut. Blindw., ii, pp. 243, 247, 1894?
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906.
Oshanin, Verz. Palae. Hemip., p. 858, 1909.
Oshanin, Kat. Palae. Hemip., p. 77, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.
Van Duzee, Check List Hemip., p. 46, 1916.

1207. **Lopus decolor** (Fall.)

Fallén, Monog. Cimic. Suec., p. 102, 1807, *Capsus.*
Fallén, Hemip. Suec., Cimic., p. 123, 1829, *Capsus.*
Meyer-Duer, Synop. Schw. Rhyn., p. 86, 1843, *Capsus.*
Sahlberg, Monog. Geoc. Fenn., p. 95, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 77, No. 91, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 555, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 298, 1861, *Oncotylus.*
Douglas and Scott, Brit. Hemip., p. 393, pl. 13, fig. 2, 1865, *Oncotylus.*
Thomson, Opusc. Ent., iv, p. 452, 1871, *Capsus* (*Phylus*).

Reuter, Genera Cimic. Eur., p. 40, 1875, *Oncotylus.*
Reuter, Rev. Crit. Caps., ii, p. 142, 1875, *Oncotylus.*
Reuter, Hemip. Gymn. Eur., ii, p. 287, 1879, *Onychumenus.*
Provancher, Pet. Faune Ent. Can., iii, p. 148, 1887, *Oncotylus.*
Saunders, Heter. Brit. Isds., p. 297, pl. 27, fig. 10, 1892, *Onychumenus.*
Montgomery, Ent. News, xiii, p. 13, 1902, *Oncotylus.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Onychumenus.*
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
Parshley, Psyche, xxi, p. 142, 1914.

chrysanthemi Hahn, Wanz. Ins., i, p. 10, fig. 4, 1831.

palliatus (Perris), Ann. Soc. Linn., Lyons, iv, p. 166, 1857, *Capsus.*

Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., D. C., Calif.

1208. **Oncotylus punctipes** Reut.

Saunders, Ent. Mo. Mag., x, p. 91, 1873 (without name).
Reuter, Genera Cimic. Eur., p. 42, 1875 (characterized).
Reuter, Rev. Crit. Caps., ii, p. 144, 1875 (described).
Reuter, Hemip. Gymn. Eur., ii, p. 279, pl. 5, fig. 4, 1879; iii, p. 541, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 149, 1887.
Hüeber, Synop. deut. Blindw., ii, pp. 254, 258, 1894?
Van Duzee, Can. Ent., xliv, p. 322, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.

†*tanaceti* (Herrich-Schaeffer), Wanz. Ins., iii, p. 85, fig. 309, 1836, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 80, No. 102, 1855, *Capsus*
Fieber, Europ. Hemip., p. 299, 1861. [(*Leptomerocoris.*)

Localities: Ont., Me., Calif.

1209. **Oncotylus puberus** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 270, 1894.

Locality: Calif.

1210. **Oncotylus guttulatus** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 269, 1894.
Gillette and Baker, Hemip. Colo., p. 48, 1895.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.

Localities: Colo., Ariz., Calif.

1211. **Oncotylus repertus** Uhl.

Uhler, Hemip. Colo., p. 49, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.

Localities: Colo., Calif.

1212. **Oncotylus longipennis** Uhl.

Uhler, Hemip. Colo., p. 48, 1895.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 360, 1904.

Localities: Colo., N. Mex.

DIVISION *PHYLARIA* (D. & S.)

Douglas and Scott, Brit. Hemip., pp. 30, 346, 1865, Family *Phylidae*.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 112, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.
Astemmides Amyot and Serville, Hémip., pp. xxxix, 283, 1843 (an un- [natural group founded on the want of a membrane).
Psallidae Douglas and Scott, Brit. Hemip., pp. 32, 400, 1865. (Family.)
Harpoceridae Douglas and Scott, Brit. Hemip., pp. 33, 468, 1865. (Family.)
Plagiognatharia Reuter, Genera Cimic. Eur., p. 7, 1875.
Reuter, Rev. Crit. Caps., i, p. 77; ii, p. 148, 1875.
Reuter, Hemip. Gymn. Eur., i, p. 15, 1878; iii, p. 568, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 101, 1887, *Plagiognathides*.
Distant, Fauna Brit. Ind., ii, p. 481, 1904.
Reuter, Festschr. f. Palmen, i, pp. 15, 26, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, *Plagiogastharia* [as synonym of *Chlamydatini*.
Oshanin, Kat. Palae. Hemip., p. 77, 1912. (Tribe.)
Nasocoraria Reuter, Hemip. Gymn. Eur., iii, pp. 317, 568, 1883.
Reuter, Festschr. f. Palmen, i, pp. 16, 27. 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906, Tribe *Nasocorini*.
Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Nasocorini*.
Exacretaria Reuter, Hemip. Gymn. Eur., iii, p. 566, 1883.
Reuter, Festschr. f. Palmen, i, pp. 16, 26, 1905.
Camptotylaria Reuter, Hemip. Gymn. Eur., iv, p. 7, 1891. [*tylini*.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 130, 1906, Tribe *Campto-*
Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Camptotylini*.
Cremnorrhinaria Reuter, Hemip. Gymn. Eur., iii, p. 567, 1883; iv, p. 13,
Reuter, Festschr. f. Palmen, i, pp. 15, 26, 1905. [1891.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 129, 1906, Tribe *Cremnorrhini*.
Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Cremnorrhinini*.
Chlamydataria Kirkaldy, Fauna Hawai., iii, p. 131, 1902. [*datini*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Tribe *Chlamy-*
Kirkaldy, Can. Ent., xxxviii, p. 370, 1906, Tribe *Chlamydatini*.

Genus **Reuteroscopus** Kirk.
Haplotype *ornatus* (Reut.)

Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for *Episcopus* Reut.).
Reuter, Festschr. f. Palmen, i, p. 46, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 28, 1907. (Syn. note.)
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.
‖*Episcopus* Reuter, Caps. Am. Bor., p. 90, 1876 (Haplotype *ornatus* Reut.).
Aristoreuteria Kirkaldy, Trans. Ann. Ent. Soc., xxxii, p. 124, 1906 (n.n. [for *Episcopus* Reut.).

1213. **Reuteroscopus ornatus** (Reut.)

Reuter, Caps. Am. Bor., p. 90, 1876, *Episcopus*.
Van Duzee, Can. Ent., xix, p. 72, 1887, *Episcopus*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Episcopus*.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 195, *Episcopus*.
Gillette and Baker, Hemip. Colo., p. 51, 1895, *Episcopus*.
Seiss, Ent. News, viii, p. 67, 1897, *Episcopus*.

Osborn, Proc. Ia. Acad. Sci., v, p. 233, 1898, *Episcopus.*
Osborn, Ohio Nat., i, p. 12, 1900, *Episcopus.*
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905, *Episcopus.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Episcopus.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Episcopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 28, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Ont., N. Y., N. J., Fla., Ohio, Ia., Kans., Colo., Texas. (West Indies.)

a. var. **uvidus** (Dist.)
Distant, Biol. Centr. Am., Heter., i, p. 433, pl. 37, fig. 18, 1893, *Lygus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 182, 1909.
†*ornatus* Reuter, Festschr. f. Palmen, i, p. 46, 1905 (part).
Localities: N. J., Fla., Kans. (Mexico.)

Genus **Psallus** Fieb.
Logotype *roseus* (Fabr.)

Fieber, Wien. Ent. Monat., ii, p. 321, 1858.
Fieber, Europ. Hemip., pp. 74, 305, 1861.
Reuter, Genera Cimic. Eur., p. 46, 1875.
Reuter, Rev. Crit. Caps., i, p. 98; ii, p. 158 (subg. on p. 167), 1875.
Reuter, Hemip. Gymn. Eur., i, p. 101, 1878; iii, p. 503, 1883.
Provancher, Pet. Fauna Ent. Can., iii, p. 152, 1887.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 482, 1904 (gives *roseus* as type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 124, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 897, 1909.
Oshanin, Kat. Palae. Hemip., p. 80, 1912.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 61, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.
Liops Fieber, Verh. Zool.-Bot. Ges. Wien, xx, p. 254, 1870 (type *punctilollis* Fieb.).
?Capellanus Distant, Ann. Mag. Nat. Hist., ser. 7, xiii, p. 109, 1904 (Haplotype *Lygus sparsus* Dist.).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 157, 1910.
Pseudatomoscelis Poppius, Ann. Soc. Ent. Belg., lv, p. 85, 1911.

1214. **Psallus juniperi** Heid.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 225, 1892 (nomen nudum).
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 49, 1905 (described).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914 *Apocremnus.*
Localities: Ont., N. Y., W. Va., D. C.

1215. **Psallus guttulosus** Reut.

Reuter, Caps. Am. Bor., p. 89, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 276, 1894.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Apocremnus.*
Localities: Ga., Fla., Texas, Colo.

1216. **Psallus biguttulatus** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 275, 1894.
Localities: Calif. (Mexico.)

1217. **Psallus sulphureus** Reut.

Reuter, Of. Finska Vet.-Soc. Forh., xlix, No. 5, p. 23, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 27, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 183, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Apocremnus.*
Localities: Fla. (West Indies).

1218. **Psallus seriatus** (Reut.)

Reuter, Caps. Am. Bor., p. 91, 1876, *Atomoscelis.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893, *Atomoscelis.*
Gillette and Baker, Hemip. Colo., p. 52, 1895, *Atomoscelis.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Atomoscelis.*
Snow, Trans. Kans. Acad. Sci., xx, pp. 152, 179, 1906, *Atomoscelis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 183, 1909, *Atomoscelis.*
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Atomoscelis.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914, *Atomoscelis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Atomoscelis.*
Van Duzee, Check List Hemip., p. 46, 1916.
Localities: Md., D. C., Fla., Utah, Colo., N. Mex., Ariz., Texas, Calif.

1219. **Psallus pilosulus** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 377, 1893, *Atomoscelis.*
Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915.
Van Duzee, Check List Hemip., p. 46, 1916.
Locality: Utah.

1220. **Psallus tuckeri** (Popp.)

Poppius, Ann. Soc. Ent. Belg., lv, p. 86, 1911, *Pseudatomoscelis.*
Van Duzee, Check List Hemip., p. 46, 1916.
Locality: Texas.

[**Psallus sericeus** Uhl. MS]

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892.
Locality: D. C.

[**Psallus antennatus** Uhl. MS]

Van Duzee, Can. Ent., xxi, p. 4, 1889.
Locality: Ont.

Genus **Sthenarus** Fieb.
Logotype *rottermundi* (Schultz)

Fieber, Wien. Ent. Monat., ii, p. 321, 1858.
Fieber, Europ. Hemip., pp. 74, 309, 1861.
Douglas and Scott, Brit. Hemip., p. 421, 1865.
Thomson, Opusc. Ent., iv, p. 449, 1871.
Reuter, Genera Cimic. Eur., p. 55, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 99; ii, p. 178, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 42, 1878; iii, p. 502, 1883.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.
Phoenicocoris Reuter, Genera Cimic. Eur., p. 55, 1875 (as subgenus; type [*modestus* Meyer).
Reuter, Rev. Crit. Caps., i, p. 99; iii, p. 779, 1875 (as subgenus).
Reuter, Caps. Am. Bor., p. 90, 1876.

1221. **Sthenarus pubescens** (Reut.)

Reuter, Caps. Am. Bor., p. 90, 1876, *Phoenicocoris.*
Van Duzee, Check List Hemip., p. 46, 1916.
Locality: Texas.

1222. **Sthenarus cuneotinctus** (Van D.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915, *Psallus.*
Van Duzee, Check List Hemip., p. 46, 1916.

Genus **Criocoris** Fieb.
Haplotype *crassicornis* Hahn

Fieber, Wien. Ent. Monat., ii, p. 319, 1858.
Fieber, Europ. Hemip., pp. 73, 301, 1861.
Reuter, Genera Cimic. Eur., p. 54, 1875.
Reuter, Crit. Rev. Caps., i, p. 99; ii, p. 177, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 84, 1879; iii, p. 503, 1883.
Oshanin, Verz. Palae. Hemip., i, p. 919, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.
Colpochilus Reuter, Genera Cimic. Eur., p. 60, 1875 (type *tennicornis* [Reut. = *crassicornis* Hahn).
‖*Strongylotes* Reuter, Caps. Am. Bor., p. 88, 1876 (type *saliens* Reut.).
Reuter, Neark. Caps., p. 79, 1909 (redescribed). [*ylotes* Reut.).
‖*Laodamia* Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903 (n.n. for *Strong-*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910. [*damia* Kirk.).
Laodamina Banks, Cat. Neare. Hemip., pp. 29, 103, 1910 (n.n. for *Lao-*
Criocoridea Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 512, 1912 (n.n. for [*Laodamia* Kirk.).

1223. **Criocoris saliens** (Reut.)

Reuter, Caps. Am. Bor., p. 88, 1876, *Strongylotes.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894, *Strongylotes.*
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904, *Strongylotes.*
Reuter, Neark. Caps., p. 79, 1909, *Strongylotes.*
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Strongylotes.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914.
Localities: Texas, Calif.
[Eastern references probably refer to the next species.]

1224. **Criocoris canadensis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 511, 1912.
Localities: Quebec, Ont.

Genus **Microphylellus** Reut.
Orthotype *modestus* Reut.

Reuter, Neark. Caps., p. 76, 1909 (nomen nudum here).
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 62, 1912 (valid here).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

1225. **Microphylellus modestus** Reut.

Heidemann, Proc. Ent. Soc. Wash., ii, p. 226, 1892, *Phylus* (MS name).
Smith, Cat. Ins. N. J., edn. 3, p. 133, 1900, *Phylus* (MS name).
Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Phylus* (MS name).
Reuter, Neark. Caps., p. 76, 1909 (MS name, as type).
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 62, 1912 (described).
Localities: Ont. Mass., N. Y., N. J., Pa.

1226. **Microphylellus rubricans** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 154, 1887, *Plagiognathus*.
Van Duzee, Can. Ent., xliv, p. 323, 1912, *Rhinocapsus*.
Localities: Quebec, Mass., N. C.

1226½. **Microphylellus alpinus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 242, 1916.
Localities: Calif.

1227. **Microphylellus bicinctus** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914, *Chlamydatus*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.
Locality: Calif.

Genus **Rhinocapsus** Uhl.
Haplotype *vanduzeii* Uhl

Uhler, Trans. Md. Acad. Sci., i, p. 81, 1890.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 215, 1916.

1228. **Rhinocapsus vanduzeii** Uhl.

Van Duzee, Can. Ent., xxi, p. 4, 1889 (MS name).
Uhler, Trans. Md. Acad. Sci., i, p. 82, 1890.
Harrington, Ottawa Nat., vi, p. 28, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Slosson, Ent. News, vi, p. 5, 1895.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Can. Ent., xxxviii, p. 407, 1906.
Moore, Can. Ent., xxxix, p. 162, 1907.
Banks, Ent. News, xxiii, p. 105, 1912.
Localities: Ont., Me., N. H., Mass., N. Y., Md., Va., N. C., Fla.

Genus **Gerhardiella** Popp.
Haplotype *rubida* Popp.

Poppius, Ann. Soc. Ent. Belg., lv, p. 84, 1911.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1229. **Gerhardiella rubida** Popp.

Poppius, Ann. Soc. Ent. Belg., lv, p. 85, 1911. [*scytus. rosaceus* (Van Duzee), Bul. Buf. Soc. Nat. Sci., x, p. 488, 1912, *Poecilo-*§*roseus* Van Duzee, Check List Hemip., p. 46, 1916 (in synonomy).
Locality: Colo.

1230. **Gerhardiella delicatus** (Uhl.)

Uhler, Ent. Am., iii, p. 34, 1887, *Psallus.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 275, 1894, *Psallus.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Psallus.*
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910, *Psallus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.
Localities: Ga., Kans., Calif.

Genus **Plagiognathus** Fieb.
Logotype *arbustorum* Fabr.

Fieber, Wien. Ent. Monat., ii, p. 320, 1858.
Fieber, Europ. Hemip., pp. 73, 302, 1861.
Douglas and Scott, Brit. Hemip., p. 400, 1865.
Thomson, Opusc. Ent., iv, p. 447, 1871.
Reuter, Genera Cimic. Eur., p. 56, 1875.
Reuter, Rev. Crit. Caps., i, p. 99; ii, p. 180, 1875.
Reuter, Hemip. Gymn. Eur., i, pp. 71, 175, 1879; iii, p. 503, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 153, 1887.
Atkinson, Cat. Capsidae, p. 170, 1889.
Oshanin, Verz. Palae. Hemip., p. 921, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1231. **Plagiognathus confusus Reut.**

Reuter, Neark. Caps., p. 80, 1909.
Locality: Nev.

1232. **Plagiognathus affiguratus** Uhl.

Uhler, Hemip. Colo., p. 50, 1895, *Macrotylus.*
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 61, 1912.
Localities: Colo., Calif.

1233. **Plagiognathus moerens** Reut.

Gillette and Baker, Hemip. Colo., p. 51, 1895, *Macrotylus* (MS name).
?Townsend, Proc. Ent. Soc. Wash., ii, p. 54, 1891, *Hoplomachus* (MS name).
Reuter, Neark. Caps., p. 80, 1909 (described).
Localities: Mich., Colo., Wyo., Calif.

1234. **Plagiognathus blatchleyi** Reut.

Smith, Cat. Ins. N. J., edn. 2, p. 132, 1900, *Macrotylus* (MS name). [scribed).
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 7, p. 61, 1912 (de-
Localities: Me., Mass., N. Y., N. J.

1235. **Plagiognathus fuscosus** (Prov.)

Provancher, Nat. Can., iv, p. 105, 1872, *Lygus.*
Van Duzee, Can. Ent., xliv, p. 323, 1912.
Parshley, Psyche, xxi, p. 143, 1914.
Localities: Quebec, Me.

1236. **Plagiognathus grandis** Reut.

Reuter, Caps. Am. Bor., p. 91, 1876.
Locality: Texas.

1237. **Plagiognathus albatus** (Van D.)

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 116, 1915, *Psallus.*
Localities: N. Y., Pa., D. C., Calif.

1238. **Plagiognathus fraternus** Uhl.

Uhler, Hemip. Colo., p. 51, 1895.
Slosson, Ent. News, xi, p. 323, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Parshley, Psyche, xxi, p. 143, 1914.

Localities: Me., N. H., N. Y., Pa., Colo.

1239. **Plagiognathus obscurus** Uhl.

Uhler, Hayden's Surv. Terr. for 1871, p. 418, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876; iii, p. 422, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 409, 1878.
Van Duzee, Can. Ent., xix, p. 72, 1887.
Cockerell, Trans. Am. Ent. Soc., xx, p. 363, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894.
Slosson, Ent. News, vi, p. 5, 1895.
Gillette and Baker, Hemip. Colo., p. 52, 1895.
Osborn, Ohio Nat., i, p. 12, 1900.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 110, 1903.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 179, 1906.
Van Duzee, Can. Ent. xxxviii, p. 408, 1906.
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Moore, Can. Ent., xxxix, p. 162, 1907.
Van Duzee, Can. Ent., xl, p. 113, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Parshley, Psyche, xxi, p. 143, 1914.

†*fuscosus* Provancher, Pet. Faune Ent. Can., iii, p. 153, 1887 (not of 1872).
†*delicatus* (Provancher), Pet. Faune Ent. Can., iii, p. 152, 1887, *Psallus*.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Ohio, Kans., Colo.

1240. **Plagiognathus annulatus** Uhl.

Uhler, Hemip. Colo., p. 51, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Moore, Can. Ent., xxxix, p. 162, 1907.
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.

Localities: Ont., Mass., N. Y., Pa., Kans., Colo.

1241. **Plagiognathus politus** Uhl.

Uhler, Hemip. Colo., p. 52, 1895.
Smith, Cat. Ins. N. J., edn. 2, p. 133, 1900.
Montgomery, Ent. News, xiii, p. 13, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.

Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Moore, Can. Ent., xxxix, p. 162, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Parshley, Psyche, xxi, p. 143, 1914. [*cremnus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916, *Apo-*
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Kans., Manitoba. (Mexico?)

1242. **Plagiognathus breviceps** (Reut.)

Reuter, Neark. Caps., p. 78, 1909, *Psallus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Psallus?*
Van Duzee, Check List Hemip., p. 47, 1916.

[**Plagiognathus cunealis** Uhl. MS]

Reuter, Neark. Caps., p. 78, 1909, *Psallus.*
Locality: D. C.

[**Plagiognathus pallipes** Uhl. MS]

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892.
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905.
Localities: Kans., Ia.

Genus **Apocremnus** Fieb.
Haplotype *ancorifer* Fieb.

Fieber, Wien. Ent. Monat., ii, p. 320, 1858.
Fieber, Europ. Hemip., pp. 74, 304, 1861.
Douglas and Scott, Brit. Hemip., p. 403, 1865.
Thomson, Opusc. Ent., iv, p. 445, 1871.
Reuter, Rev. Crit. Caps., i, p. 98; ii, p. 159, 1875 (subgen. of *Psallus*).
Reuter, Crit. Rev. Caps., i, p. 98; ii, p. 159, 1875 (subgen. of *Psallus*).
Atkinson, Cat. Capsidae, p. 160, 1889 (as synon. of *Psallus*).
Oshanin, Verz. Palae. Hemip., i, p. 897, 1909 (as synon. of *Psallus*).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910 (includes *Psallus*).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, pp. 215, 243, 1916.

1243. **Apocremnus ancorifer** Fieb.

Fieber, Wien. Ent. Monat., ii, p. 336, 1858.
Fieber, Europ. Hemip., p. 304, 1861.
Walker, Cat. Heter., vi, p. 150, 1873, *Eurymerocoris.*
Reuter, Genera Cimic. Eur., p. 47, 1875.
Reuter, Hemip. Gymn. Eur., i, p. 104, pl. 7, fig. 7, 1878; iii, pp. 517, 518, 1883.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Psallus.*
Reuter, Neark. Caps., p. 77, 1909, *Psallus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Psallus.*
nigripes male (Fieber), Europ. Hemip., p. 295, 1861, *Atractotomus.*
minor Reuter, Hemip. Gymn. Eur., iii, p. 460, 1883 (as variety).
puberulus (Montandon), Rev. d'Ent., vi, p. 68, 1887, *Psallus.*
[*robustus* Uhl. MS] Smith, Cat. Ins. N. J., edn. 2, p. 132, 1900.
Localities: N. Y., N. J., D. C., Calif. (Europe.)

1244. **Apocremnus variabilis** (Fall.)

Fallén, Monog. Cimic. Suec., p. 88, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 98, 1829, *Phytocoris.*
Hahn, Wanz. Ins., ii, p. 137, fig. 224, 1834, *Phytocoris.*
Zetterstedt, Ins. Lapp., column 275, 1840, *Phytocoris.*
Meyer-Duer, Verz. Schw. Rhyn., p. 68, 1843, *Capsus.*
Sahlberg, Monog. Geoc. Fenn., p. 115, 1848, *Capsus.*
Costa, Cimic. Reg. Neap., Cent., iii, p. 268, 1852, *Phytocoris.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 93, No. 129, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 592, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 305, 1861.
Douglas and Scott, Brit. Hemip., p. 408, 1865.
Thomson, Opusc. Ent., iv, p. 447, 1871, *Capsus.*
Walker, Cat. Heter., vi, p. 151, 1873, *Eurymerocoris.*
Reuter, Genera Cimic. Eur., p. 49, 1875.
Reuter, Rev. Crit. Caps., ii, p. 165, 1875.
Reuter, Hemip. Gymn. Eur., i, p. 116, pl. 7, fig. 5, 1878; ii, p. 303, 1879; iii,
Van Duzee, Can. Ent., xxi, p. 4, 1889. [p. 520, 1883.
Saunders, Heter. Brit. Isds., pp. 311, 313, pl. 29, fig. 6, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 179, 1894.
Banks, Cat. Neark. Hemip., p. 31, 1910.

perrisii (Mulsant & Rey), Ann. Soc. Linn., Lyons, i, p. 139, 1852, *Capsus.*
salicis (Douglas and Scott), Brit. Hemip., p. 415, 1865, *Psallus.*

Localities: Ont., N. Y. (Europe.)

1244½. **Apocremnus nigerrimus** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 243, 1916.

Locality: Calif.

Genus **Bolteria** Uhl.
Haplotype *amicta* Uhl.

Uhler, Ent. Am., iii, p. 33, 1887.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 147, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.
Van Duzee, Psyche, xxiii, p. 141, 1916.

1245. **Bolteria amicta** Uhl.

Uhler, Ent. Am., iii, p. 34, 1887.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.

Locality: N. Mex.

1246. **Bolteria picta** Uhl.

Uhler, Proc. Ent. Soc. Wash., ii, p. 373, 1893.
Gillette and Baker, Hemip. Colo., p. 51, 1895.
Reuter, Neark. Caps., p. 72, 1909, *Hyoidea.*

Localities: Colo., Utah.

a. var. **hirta** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 244, 1916.

Locality: Calif.

Genus **Atractotomus** Fieb.
Logotype *magnicornis* Fall.

Fieber, Wien. Ent. Monat., ii, p. 317, 1858.
Fieber, Europ. Hemip., pp. 77, 294, 1861.

Thomson, Opusc. Ent., iv, p. 445, 1871.
Reuter, Genera Cimic. Eur., p. 46, 1875.
Reuter, Rev. Crit. Caps., i, p. 98; ii, p. 156, 1875.
Reuter, Hemip. Gymn. Eur., i, p. 92, 1878; iii, p. 503, 1883.
Atkinson, Cat. Capsidae, p. 167, 1889.
Oshanin, Verz. Palae. Hemip., i, p. 914, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1247. **Atractotomus hesperius** Reut.

Reuter, Neark. Caps., p. 78, 1909.
Locality: Calif.

1248. **Atractotomus albidicoxis** Reut.

Reuter, Neark. Caps., p. 79, 1909.
Locality: Ariz.

Genus **Leucopoecila** Reut.
Haplotype *albofasciata* Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlix, No. 5, p. 24, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1249. **Leucopoecila albofasciata** Reut.

Reuter, Of. Finska Vet. Soc. Forh., xlix, No. 5, p. 26, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 28, 1907.
Reuter, Neark. Caps., p. 83, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 31, 1914.
†*forticornis* Wirtner, Ann. Carn. Mus., iii, p. 202, 1904, *Rhinocloa*.
Localities: Pa., Fla., Calif. (West Indies.)

Genus **Myochroocoris** Reut.
Haplotype *griseolus* Reut.

Reuter, Neark. Caps., p. 77, 1909.

1250. **Myochroocoris griseolus** Reut.

Reuter, Neark. Caps., p. 77, 1909.
Locality: Texas.

Genus Atomoscelis Reut.
Logotype *onustus* Fieb.

Reuter, Genera Cimic. Eur., p. 57, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 100, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 67, 1878; ii, p. 298, 1879; iii, p. 502, 1883.
Reuter, Of. Finska Vet.-Soc. Forh., xliv, p. 61, 1902 (redescribed).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906 (cites *onustus* as type).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 145, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1251. **Atomoscelis modestus** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914, *Tuponia*.
Van Duzee, Pomona Jl. Ent. Zool., vii, p. 118, 1915 (notice).
Locality: Calif.

Genus **Europiella** Reut.
Orthotype *stigmosa* Uhl.

Reuter, Neark. Caps., p. 83, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1252. **Europiella stigmosa** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes.*
Reuter, Neark. Caps., p. 84, 1909.
Localities: Colo., Utah, Nevada, Calif.

1253. **Europiella decolor** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 380, 1893, *Agalliastes.*
Gillette and Baker, Hemip. Colo., p. 54, 1895, *Agalliastes.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes.*
Reuter, Neark. Caps., p. 81, 1909, *Plagiognathus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 29, 1914, *Plagiognathus.*
Localities: Kans., Colo., Utah, Nev., Calif.

1254. **Europiella concinna** Reut.

Reuter, Neark. Caps., p. 84, 1909.
Locality: Calif.

1255. **Europiella umbrina** Reut.

Reuter, Neark. Caps., p. 85, 1909.
[*biguttata* Uhl. MS] Reuter, Neark. Caps., p. 85, 1909 (synonym).
Locality: Calif.

1265. **Europiella rubida** (Uhl.)

Uhler, Hemip. Colo., p. 41, 1895, *Sthenarus.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907, *Sthenarus.*
Reuter, Neark. Caps., p. 85, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: N. Y., Fla., Ill., Kans., Colo., Texas.

Genus **Tuponia** Reut.
Logotype *lethierryi* Reut.

Reuter, Gen. Cimic. Eur., p. 53, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 98, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 16, 1878; iii, p. 499, 1883.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (names *lethierryi* type).
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1257. **Tuponia subnitida** Uhl.

Uhler, Hemip. Colo., p. 45, 1895.
Locality: Colo.

[**Tuponia herbacea** Uhl. MS]

Townsend, Can. Ent., xxiv, p. 194, 1892.
Locality: N. Mex.

Genus **Chlamydatus** Curt.
Haplotype *marginatus* Curt. = *saltitans* (Fall.)

Curtis, Ent. Mag., i, p. 197 (May), 1833.
Curtis, Brit. Ent., xv, pl. 693, 1838.
Reuter, Rev. d'Ent., v, p. 122, 1886.
Puton, Cat. Hemip. Palae., edn. 3, p. 62, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 137, 1887.

Berg, Nova Hemip., p. 99, 1892.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906.
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 931, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.
‖*Attus* Hahn, Wanz. Ins., i, p. 116, 1831 (haplotype *pulicarius* Fall.).
Burmeister, Handb. d. Ent., ii, p. 276, 1835.
Agalliastes Fieber, Wien. Ent. Zeit., ii, p. 321, 1858 (type *saltitans* Fall.).
Fieber, Europ. Hemip. pp. 74, 310, 1861.
Thomson, Opusc. Ent., iv, p. 449, 1871.
Reuter, Genera Cimic. Eur., p. 59, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 100; ii, p. 186, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 60, 1878; iii, p. 501, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 154, 1887.
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 27, 1908.

1258. **Chlamydatus pulicarius** (Fall.)

Fallén, Monog. Cimic. Suec., p. 95, 1807, *Lygaeus.*
Fallén, Hemip. Suec., Cimic., p. 113, 1829, *Phytocoris.*
Hahn, Wanz. Ins., i, p. 117, fig. 62, 1831, *Attus.*
Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Attus.*
Meyer-Duer, Verz. Schw. Rhyn., p. 110, 1843, *Capsus.*
Sahlberg, Monog. Geoc. Fenn., p. 119, 1848, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 101, No. 149, 1855, *Capsus.*
Flor, Rhyn. Livl., i, p. 600, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 312, 1861, *Agalliastes.*
Fieber, Wien. Ent. Monat., viii, p. 229, 1864, *Agalliastes.*
Douglas and Scott, Brit. Hemip., p. 427, pl. 14, fig. 1, 1865, *Agalliastes.*
Thomson, Opusc. Ent., iv, p. 448, 1871, *Capsus.*
Walker, Cat. Heter., vi, p. 155, 1873, *Eurymerocoris.*
Reuter, Genera Cimic. Eur., p. 59, 1875, *Agalliastes.*
Reuter, Rev. Crit. Caps., ii, p. 186, 1875, *Agalliastes.*
Reuter, Hemip. Gymn. Eur., i, p. 60, pl. 3, fig. 8, 1878; iii, p. 510, 1883,
Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliastes.* [*Agalliastes.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
saliens (Wolff), Icon. Cimic., v, p. 200, fig. 194, 1811, *Capsus.*
?pallipes (Jakowlev), Horae Soc. Ent. Ross., iv, p. 158, 1867, *Agalliastes.*
Localities: N. Y. (Europe.)

1259. **Chlamydatus suavis** (Reut.)

Reuter, Caps. Am. Bor., p. 92, 1876, *Agalliastes.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 152, 1906, *Agalliastes.*
Reuter, Neark. Caps., 83, 1909.
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905, *Agalliastes.*
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.
[*simplex* Uhl. MS] Popenoe, Trans. Kans. Acad. Sci., ix, p. 63, 1885,
Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893, *Agalliastes.* [*Agalliastes.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes.*
Localities: Ont., N. Y., Pa., D. C., Ala., Fla., Kans., Texas, Calif.

1260. **Chlamydatus associatus** (Uhl.)

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 419, 1872, *Agalliastes.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 319, 1876, *Agalliastes.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1328, *Agalliastes.*
Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliastes.*
Provancher, Pet. Faune Ent. Can., iii, p. 155, 1887, *Agalliastes.*
Van Duzee, Can. Ent., xxi, p. 5, 1889, *Agalliastes.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 123, 1892, *Agalliastes.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes.*
Gillette and Baker, Hemip. Colo., p. 54, 1895, *Agalliastes.*
Osborn, Ohio Nat., i, p. 12, 1900, *Agalliastes.*
Slosson, Ent. News, xi, p. 323, 1900, *Agalliastes.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904, *Agalliastes.*
Wirtner, Ann. Carn. Mus., iii, p. 201, 1904.
Heidemann, Jl. N. Y. Ent. Soc., xiii, p. 50, 1905, *Agalliastes.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes*
Tucker, Univ. Kans. Sci. Bul., iv, p. 58, 1907.
Reuter, Neark. Caps., p. 82, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.

Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Ohio, Ia., Colo., Utah, N. Mex., Texas, Calif.

1261. **Chlamydatus uniformis** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 379, 1893, *Agalliastes.*

Locality: Utah.

1262. **Chlamydatus luctuosus** Prov.

(Entered in Check List by error; see No. 1108.)

1263. **Chlamydatus apiatus** (Uhl.)

Uhler, Hemip. Colo., p. 53, 1895, *Agalliastes.*

Localities: Kans., Colo.

1264. **Chlamydatus fumidus** (Uhl.)

Uhler, Hemip. Colo., p. 54, 1895, *Agalliastes.*

Locality: Colo.

1265. **Chlamydatus obliquus** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 378, 1893, *Agalliastes.*
Reuter, Neark. Caps., p. 83, 1909.

Locality: Utah.

1266. **Chlamydatus bakeri** Bergr.

Bergroth, Wien. Ent. Zeit., xvii, p. 35, 1898.
‖*signatus* (Uhler), Hemip. Colo., p. 55, 1895, *Agalliastes.*
Crevecoeur, Trans. Kans. Acad. Sci., xix, p. 233, 1905, *Agalliastes.*
uhlerianus Kirkaldy, Can. Ent., xli, p. 390, 1909.

Locality: Colo.

Genus **Campylomma** Reut.

Logotype *nigronasuta* Reut.

Reuter, Hemip. Gymn. Eur., i, p. 52, 1878; iii, p. 501, 1883. [type).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 483, 1904 (names *nigronasuta* Reut.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906 (cites *nigronasuta* as
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916. [type).

1267. **Campylomma verbasci** (Mey.)

Meyer-Duer, Verz. Schw. Rhyn., p. 70, pl. 4, fig. 1, 1843, *Capsus.*
Fieber, Europ. Hemip., p. 311, 1861, *Agalliastes.*
Reuter, Hemip. Gymn. Eur., i, p. 53, pl. 3, fig. 6, 1878; iii, p. 509, 1883.
Uhler, Check List, p. 21, 1886, *Agalliastes.*
Van Duzee, Can. Ent., xix, p. 73, 1887, *Agalliastes.*
Provancher, Pet. Faune Ent. Can., iii, p. 155, 1887, *Agalliastes.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908.
Reuter, Neark. Caps., p. 81, 1909.
Van Duzee, Can. Ent., xliv, p. 323, 1912.
?punctipes Herrich-Schaeffer, Nomen. Ent., i, p. 50, 1835, *Capsus.*
pellucidus Garbiglietti, Bul. Soc. Ent. Ital., i, p. 190, 1869, *Orthotylus.*
Localities: Quebec, Ont., Me., N. Y. (Europe.)

Genus **Cylloceps** Uhl.
Haplotype *pellicia* Uhl.

Uhler, Proc. Ent. Soc. Lond. for 1893, p. 711.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 126, 1906.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 162, 1910.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1268. **Cylloceps pellicia** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 712.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Fla. (West Indies.)

Genus **Maurodactylus** Reut.
Logotype *nigricornis* Reut. = *albidus* Kol.

Reuter, Hemip. Gymn. Eur., i, p. 27, 1878; iii, p. 500, 1883.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906 (names *nigricornis* Reut.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916. [type).

1269. **Maurodactylus angulatus** Uhl.

Uhler, Hemip. Colo., p. 53, 1895.
Locality: Colo.

1270. **Maurodactylus consors** Uhl.

Uhler, Hemip. Colo., p. 53, 1895.
Locality: Colo.

1271. **Maurodactylus semiustus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 31, 1914.
Locality: Calif.

Genus **Rhinacloa** Reut.
Haplotype *forticornis* Reut.

Reuter, Caps. Am. Bor., p. 88, 1876.
Reuter, Neark. Caps., p. 81, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 216, 1916.

1272. **Rhinocloa forticornis** Reut.

Reuter, Caps. Am. Bor., p. 89, 1876.
Townsend, Can. Ent., xxiv, p. 194, 1892.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 274, 1894.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 196.
Reuter, Ann. k. k. Nat. Hofms. Wien, xxii, p. 178, 1907 (notice).
Reuter, Neark. Caps., p. 82, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 160, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 30, 1914.
Localities: Texas, N. Mex., Utah, Calif. (West Indies, Mexico.)

UNCERTAIN FORMS

Genus **Microsynamma** Fieb.
Type *scotti* Fieb. = *nigritulus* Zett.

Fieber, Wien. Ent. Monat., viii, p. 74, 1864.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 146, 1910.
Oshanin, Kat. Palae. Hemip., p. 83, 1912. [*scotti* Scott = *nigritula* Zett.).
Monosynamma Scott, Ent. Annual for 1864, p. 160, fig. 5 (Haplotype
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 123, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 934, 1909.
Neocoris Douglas and Scott, Brit. Hemip., p. 423, 1865 (Logotype *scotti*
Reuter, Genera Cimic. Eur., p. 58, 1875. [Fieb. = *nigritula* Zett.).
Reuter, Rev. Crit. Caps., i, p. 100; ii, p. 184, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., i, p. 55, 1878; iii, p. 502, 1884.
Puton, Cat. Hemip. Palae., edn. 3, p. 62, 1886.
Atkinson, Cat. Capsidae, p. 175, 1889.

Microsynamma bohemanni (Fall.)

Fallén, Hemip. Suec., Cimic., p. 106, 1829, *Phytocoris.*
Zetterstedt, Ins. Lapp., column 276, 1840, *Phytocoris.*
Flor, Rhyn. Livl., i, p. 625, 1860, *Capsus.*
Fieber, Europ. Hemip., p. 303, 1861, *Plagiognathus.*
Douglas and Scott, Brit. Hemip., p. 424, pl. 13, fig. 9, 1865, *Neocoris.*
Thomson, Opusc. Ent., iv, p. 448, 1871, *Capsus.*
Walker, Cat. Heter., vi, p. 150, 1873, *Eurymerocoris.*
Reuter, Genera Cimic. Eur., p. 58, 1875, *Neocoris.*
Reuter, Rev. Crit. Caps., ii, p. 184, 1875, *Neocoris.* [*Neocoris.*
Reuter, Hemip. Gymn. Eur., i, p. 57, 1878; ii, p. 303, 1879; iii, p. 509, 1883.
Saunders, Heter. Brit. Isds., pp. 319, 321, pl. 30, fig. 5, 1892, *Plagiognathus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 180, 1894, *Plagiognathus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 5, 1908, *Neocoris.*
ruficollis Fallén, Hemip. Suec. Cimic., p. 107, 1829, *Phytocoris.*
furcatus Herrich-Schaeffer, Nomen. Ent., i, p. 52, 1835, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., iv, p. 79, figs. 408, 409, 1839, *Capsus.*
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 95, No. 134, 1855, *Capsus.*
Localities: N. Y.(?). (Europe.)

Capsus obscurellus Walk.

Walker, Cat. Heter., vi, p. 93, 1873.
Locality: "Hudson's Bay."

Capsus frontifer Walk.

Walker, Cat. Heter., vi, p. 94, 1873.
Locality: "N. Am."

Capsus pallescens Walk.

Walker, Cat. Heter., vi, p. 94, 1873.
Locality: "Hudson's Bay."

Family **ISOMETOPIDAE** Fieb.

Fieber, Wien. Ent. Monat., iv, p. 259, 1860.
Fieber, Europ. Hemip., pp. 26, 60, 237, 1861.
Reuter, Genera Cimic. Europ., p. 7, 1875, Div. *Isometoparia.*
Reuter, Rev. Crit. Caps., i, p. 65, 1875, Subfam. *Isometopina.*
Puton, Cat. Hemip. Palae., edn. 3, p. 63, 1886, Tribe *Isometopini.*
Atkinson, Cat. Capsidae, p. 180, 1889, Div. *Isometoparia.*
Distant, Fauna Brit. Ind., Rhyn., ii, p. 483, 1904, Subfam. *Isometopinae.*
Reuter, Festsch. f. Palmen, i, p. 12, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906, Subfam. *Isometopinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 51, 69, 104, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 20, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 53, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912. [(Tribe.)
Heidemanniini Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.

Genus **Myiomma** Put.
Type *fieberi* Put.

Puton, Pet. Nouv. Ent., i, p. 177, 1872.
Puton, Ann. Soc. Ent. Fr., ser. 5, iii, p. 20, 1873.
Reuter, Genera Cimic. Eur., p. 60, 1875.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906.
Horvath, Ann. Mus. Natl. Hung., vi, p. 9, 1908.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 27, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.
Heidemannia Uhler, Proc. Ent. Soc. Wash., ii, p. 119, 1891.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 145, 1906.

1273. **Myiomma cixiiformis** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 121, 1891, *Heidemannia.*
Banks, Ent. News, xviii, p. 425, 1907, *Heidemannia.*
Heidemann, Proc. Ent. Soc. Wash., ix, p. 128, 1908, *Heidemannia.*
Localities: Md., D. C., Va.

Genus **Isometopus** Fieb.
Type *intrusus* H. S.

Fieber, Wien. Ent. Monat., iv, p. 259, 1860.
Fieber, Europ. Hemip., pp. 66, 237, 1861.
Reuter, Genera Cimic. Europ., p. 61, 1875.
Distant, Fauna Brit. Ind., Rhyn., ii, p. 484, 1904 (names *intrusus* type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 122, 1906.
Cephalocoris Stein, Berl. Ent. Zeit., iv, p. 79, 1860.

1274. **Isometopus pulchellus** Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 128, fig. 7a, 1908.
Localities: N. Y., W. Va., Va.

1275. **Isometopus signatus** Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 129, fig. 7b, 1908.
Locality: Texas.

1276. **Isometopus unicolor** Heid.

Heidemann, Proc. Ent. Soc. Wash., ix, p. 130, figs. 7c, d, 1908.
Locality: Ariz.

SERIES *TRICHOTELOCERA* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 67, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Superfamily DIPSOCOROIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxvii, No. 3, p. 67, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Ceratocombidae Fieber, Europ. Hemip., pp. 25, 39, 142, 1861. [(Subfam.)
Reuter, Of. Vet. Akad. Forh., xxviii, p. 405, 1871, *Ceratocombina.*
Stål, Enum. Hemip., iii, p. 103, 1873, *Ceratocombina.* (Subfam. of [*Cimicidae.*)
Puton, Cat. Hémip. Palae., edn. 3, p. 42, 1886, *Ceratocombini.* (Tribe.)
Ashmead, Ent. Am., iv, p. 68, 1888 (*Ceratocampidae* by error).
Reuter, Acta Soc. Sci., Fenn., xix, No. 6, p. 3, 1891.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 231, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 335, 1900.
Distant, Fauna Br. Ind., Rhyn., ii, p. 408, 1904. (Family.)
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.

Family DIPSOCORIDAE Dohrn

Dohrn, Cat. Hemip., p. 36, 1859.
Kirkaldy, Can. Ent., xxxviii, p. 375, 1906; xl, p. 361, 1908.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 52, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912. [subfamily).

Ceratocombina Reut., Acta Soc. Sci. Fenn., xix, No. 6, p. 3, 1891 (as
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 231, 1896, Subfam. [*Ceratocombidae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 408, 1904, Subfam. *Cerato-* [*combinae.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906, Subfam. *Cerato-*
Bergroth, Wien. Ent. Zeit., xxxi, p. 164, 1912. [*combinae.*

Genus **Ceratocombus** Sign.
Haplotype *mulsanti* Sign. = *coleoptratus* Zett.

Signoret, Ann. Soc. Ent. Fr., ser. 4, x, p. 542, 1852.
Fieber, Wien. Ent. Monat., iv, p. 267, 1860.
Fieber, Europ. Hemip. pp. 39, 142, 1861.
Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 4, 1891.
Champion, Biol. Centr. Am., Heter., ii, p. 336, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 147, 1906.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 65, 1912.
Lichenobia Baerensprung, Berl. Ent. Zeit., i, p. 165, 1857 (type *ferruginea* Baer.).
Xylonannus Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 8, 1891 (type *corticalis* Reut.).

1277. **Ceratocombus(?) brasiliensis** Reut.
Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 7, 1891.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 196.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.
Localities: Fla.(?), N. Mex.(?). (Brazil.)

1278. **Ceratocombus niger** Uhl.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 361, 1904.
Locality: N. Mex.

1279. **Ceratocombus latipennis** Uhl.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 362, 1904.
Locality: N. Mex.

Family SCHIZOPTERIDAE Reut.

Reuter, Acta Soc. Sci. Fenn., xix, No. 6, p. 3, 1891, Subfam. *Schizopterina.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 233, 1896, Subfam. [*Schizopteridae.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906, Subfam. *Schizopterinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 68, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 21, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 52, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Genus **Glyptocombus** Heid.
Haplotype *saltator* Heid.

Heidemann, Proc. Ent. Soc. Wash., vii, p. 192, 1906
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 66, 1912.

1280. **Glyptocombus saltator** Heid.
Heidemann, Proc. Ent. Soc. Wash., vii, p. 194, 1906.
Horvath, Ann. Mus. Natl. Hung., vi, p. 565, 1908, *Hypselosoma.*
Locality: Md.

SERIES *HYDROBIOTICA* Reut.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 56, 60, 1910.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, pp. 14, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Superfamily GERROIDEAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815, *Gerridae.*
Spinola, Tavola Sinot., pp. 38, 42, 1850, Subfam. *Gerroideae.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (as family).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 204, 1909 (as family).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 65, 1910.
Reuter, Of. Finska Vet.-Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Ploteres Latreille, Hist. Nat. Crust. Ins., xii, p. 263, 1804.
Latreille, Genera Crust. Ins., iii, p. 130, 1807.
Latreille, Fam. Nat. Règne Anim., p. 424, 1825.
Amyot and Serville, Hémip., pp. 1, 409, 1843. (French *Rameurs.*)
Dohrn, Cat. Hemip., p. 53, 1859.

Amphibicorises Dufour, Rech. Anat. Phys. Hemip., p. , 1833.
Spinola, Essai sur les Hémip., p. 63, 1837 (1840), *Amphibicoryzes.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 64, 1853, *Amphibicores.*

Hydrometrites Laporte, Essai Classif. Syst. Hemip., p. 22, 1832.
Burmeister, Handb. d. Ent., ii, p. 206, 1835. *Hydrodromici.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 467; Synop., p. 119, 1840,
Fieber, Genera Hydroc., p. 9, 1851, *Hydrodromica.* [*Hydrometridae.*
Flor, Rhyn. Livl., i, p. 725, 1860, *Hydrodromica.*
Fieber, Europ. Hemip., p. 22, 1860, *Hydrodromica.*
Douglas and Scott, Brit. Hemip., pp. 11, 40, 557, 1865, *Hydrodromica.*
Provancher, Pet. Faune Ent. Can., iii, p. 192, 1888, *Hydrometrides.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 53, 1896, *Hydrometridae.*
Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898, *Hydrometridae.*
Van Duzee, Check List Hemip., p. 48, 1916, *Hydrometroidea.*

Veliens Brullé, Hist. Nat. des Ins., ix, p. 285, 1835.
Blanchard, Hist. des Ins., Hémip., p. 95, 1840.

PHALANX *HYDROMETRAEFORMES* Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 85, 1912.

Family HYDROMETRIDAE (Billb.)

Billberg, Enum. Ins. Mus. Billb., p. 67, 1820, *Hydrometrides.*
Stephens, Syst. Cat. Brit. Ins., ii, p. 352, 1829.
Costa, Cimic. Reg. Neap., Cent. i, p. 11, 1838, *Hydrometrini.*
Spinola, Tavola Sinot., pp. 44, 45, 1850, Subfam. *Hydrometroidcae.*
Amyot and Serville, Hémip., pp. xlix, 398, 1843, Groupe *Hydrometrides.*
Stål, Hemip. Afr., iii, p. 166, 1865, *Hydrometrida.*
Schiodte, Nat. Tidskr., Ser. 3, vi, p. 266, 1869, *Hydrometrae.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Hydrometrina.*
Uhler, Stand. Nat. Hist., ii, p. 275, 1884, *Hydrometridae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 36, 1886, Tribe *Hydrometrini* (part).
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 54, 1896 (as subfamily).
Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898, Subfam. *Hydrometrinae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 170, 1904, Subfam. *Hydrometrinae.*

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906, Subfam. *Hydrometrinae.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908, Subfam. *Hydro-*
Horvath, Ann. Mus. Natl. Hung., ix, p. 22, 1911, *Hydrometridae.* [*metrinae.*
Limnobatidea Fieber, Genera Hydroc., p. 9, 1851.
Fieber, Europ. Hemip., pp. 23, 103, 1861, *Limnobatidae.*
Douglas and Scott, Brit. Hemip., p. 575, 1865, *Limnobatidae.*
Uhler, Check List, p. 26, 1886, *Limnobatidae.*

Genus **Hydrometra** Lam.
Logotype *stagnorum* Linn.

Latreille, Précis, p. 86, 1796 (invalid here).
Lamarck, Syst. Anim. s. Vert., p. 295, 1801 (valid here).
Latreille, Hist. Nat. Crust. Ins., iii, p. 250, 1802 (names *stagnorum* example).
Walckenaer, Fauna Paris., ii, p. 350, 1802 (part).
Latreille, Hist. Nat. Crust. Ins., xii, p. 267, 1804 (gives *stagnorum* as example).
Latreille, Genera Crust. Ins., iii, p. 131, 1807 (mentions *stagnorum* only).
Latreille, Consid. Génl., p. 434, 1810 (names *stagnorum* type).
Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (for *stagnorum*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 511, 1816.
Latreille, Fam. Nat. Règne. Anim., p. 424, 1825 (no species mentioned).
Laporte, Essai Classif. Syst. Hémip., p. 22, 1832 (names *stagnorum* type).
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835 (*stagnorum* only species).
Brullé, Hist. Nat. des Ins., ix, p. 303, 1835 (*stagnorum* only species).
Spinola, Essai sur les Hémip., p. 63, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *stagnorum*
Amyot and Serville, Hémip., p. 398, 1843. [as type).
Spinola, Tavola Sinot, p. 45, 1850.
Stål, Hemip. Afr., iii, p. 166, 1865.
Champion, Biol. Centr. Am., Heter., ii, p. 124, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 170, 1904.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.
Limnobates Burmeister, Handb. d. Ent., ii, p. 210, 1835 (type *stagnorum*).
Herrich-Schaeffer, Wanz. Ins., ix, p. 118, 1853 (*stagnorum* only species).
Fieber, Europ. Hemip., pp. 32, 103, 1861.
Douglas and Scott, Brit. Hemip., p. 575, 1865.
Uhler, Check List, p. 26, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 193, 1888.

1281. **Hydrometra martini** Kirk.

Kirkaldy, Entomologist xxxiii, p. 175, 1900 (n.n. for *lineata* Say).
Bueno, Ent. News, xxxvii, p. 12, 1905.
Bueno, Jl. N. Y. Ent. Soc., iii, p. 39, 1905; xvi, p. 234, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Parshley, Psyche, xxi, p. 143, 1914.
‖*lineata* Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl.
Uhler, Stand. Nat. Hist., ii, p. 276, 1884. [Writ., i, p. 361.
Provancher, Pet. Faune Ent. Can., iii, p. 193, 1898, *Limnobates.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894, *Limnobates.*
Kirkaldy, Entomologist, xxxi, p. 2, 1898.

Martin, Can. Ent., xxxii, p. 70, pl. 3, 1900.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906.
Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ind., Ill., La., Texas, Ariz.

1282. **Hydrometra australis** Say

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl. Writ., i, p. 361
Bueno, Can. Ent., xxxvii, pp. 15, 264, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Ga., Fla., La.

PHALANX *GERRIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 66, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 86, 1912.

Family GERRIDAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. 1, 410, 1843, Groupe *Gerrides.*
Dohrn, Cat. Hemip., p. 53, 1859, *Gerridae.*
Puton, Synop. Heter. Fr., i, p. 152, 1879, Tribe *Gerridini.*
Reuter, Ent. Tidskr., iii, p. 165, 1882, Subfam. *Gerridina.*
Puton, Cat. Hémip. Palae., edn. 3, p. 36, 1886, Tribe *Gerridini.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 59, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 144, 1898, Subfam. *Gerrinae.*
Bergroth, Ent. Mo. Mag., ser. 2, xiii, p. 258, 1902.
Distant, Fauna Br. Ind., Rhyn., ii, pp. 168, 175, 1903.
Horvath, Ann. Mus. Natl. Hung., ii, p. 576, 1904, *Gerrididae.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906, Subfam. *Gerrinae.*
Bergroth, Wien. Ent. Zeit., xxv, p. 6, 1906.
Kirkaldy, Can. Ent., xl, p. 360, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 490, 1908, Subfam. *Gerridina.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908, Subfam. *Gerrinae.*
Reuter, Acta Soc. Sci. Fenn., xxxvii, pp. 66, 81, 1910.
Distant, Fauna Br. Ind., Rhyn., v, p. 141, 1910, Subfam. *Gerrinae.*
Banks, Cat. Neare. Hemip., p. 26, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 23, 1911.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Subfam. *Gerrinae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 16, 48, 54, 1912.
Oshanin, Kat. Palae. Hemip., p. 86, 1912.
Hydrometridea Fieber, Genera Hydroc., p. 9, 1851.
Fieber, Europ. Hemip., pp. 24, 33, 106, 1861, *Hydrometrae.*
Hydrobatida Stål, Hemip. Afr., iii, p. 168, 1865.
Stål, Of. Vet. Akad. Forh., xxv, p. 395, 1868.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.
Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Hydrobatina.*
Berg, Hemip. Argent., p. 182, 1879, *Hydrobatina.*
Uhler, Stand. Nat. Hist., ii, p. 267, 1884, *Hydrobatidae.*
Uhler, Check List, p. 26, 1886, *Hydrobatidae.*

Subfamily GERRINAE Bian.

Bianchi, Ann. Mus. Petersb. for 1896, p. 69.
Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 509, 1899, *Gerritae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 176, 1903; v, p. 141, 1910, Div. *Gerri-*
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Tribe *Gerrini.* [*naria.*

Genus **Gerris** Fabr.
Logotype *lacustris* Linn.

Fabricius, Ent. Syst., iv, p. 187, 1794 (indicates *lacustris* as typical).
Latreille, Précis, p. 85, 1796 (no species mentioned). [example).
Latreille, Hist. Nat. Crust. Ins., iii, p. 250, 1802 (gives *lacustris* as only
Latreille, Hist. Nat. Crust. Ins., xii, p. 271, 1804 (*lacustris* and two others).
Latreille, Genera Crust. Ins., iii, p. 133, 1807.
Fallén, Monog. Cimic. Suec., p. 114, 1807 (includes *lacustris*).
Latreille, Consid. Génl., pp. 259, 434, 1810 (names *lacustris* type, valid).
Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (for *paludum*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 513, 1816.
Latreille, Fam. Nat. Règne Anim., p. 424, 1825.
Le Peletier and Serville, Encyc. Méth., x, p. 265, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 23, 1832 (names two types).
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.
Brullé, Hist. Nat. de Ins., ix, p. 297, 1835.
Spinola, Essai sur les Hémip., p. 64, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 97, 1840. [type.
Westwood, Intr. Mod. Classif. Ins., Synop., p. 119, 1840 (cites *lacustris* as
Amyot and Serville, Hémip., p. 414, 1843.
Spinola, Tavola Sinot, p. 42, 1850.
Provancher, Pet. Faune Ent. Can., iii, p. 193, 1888.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 59, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 144, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 176, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 490, 1908.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908.
Banks, Cat. Nearc. Hemip., p. 26, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.
Hydrometra Lamarck, Syst. Anim. s. Vert., p. 295, 1801 (in part).
Walckenaer, Fauna Paris., ii, p. 350, 1802 (in part).
Fabricius, Syst. Rhyng., p. 256, 1803 (in part).
Burmeister, Handb. d. Ent., ii, p. 210, 1835.
Herrich-Schaeffer, Wanz. Ins., ix, p. 66, 1853.
Flor, Rhyn. Livl., i, p. 727, 1860.
Fieber, Europ. Hemip., p. 106, 1861.
Douglas and Scott, Brit. Hemip., p. 587, 1865.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.

Subgenus **Aquarius** Schell
Type *paludum* Schell. = *najas* De Geer

Schellenberg, Gesc. Land-u. Wass. Wanz., p. 25, 1800.
Kirkaldy, Entomol., xxxiv, p. 263, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.

Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.
Hygrotrechus Stål, Of. Vet. Akad. Forh., xxv, p. 395, 1868 (type *najas* De G.).
Puton, Synop. Heter. Fr., i, p. 154, 1879.
Uhler, Stand. Nat. Hist., ii, p. 267, 1884.

1283. **Gerris remigis** Say

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 806; Compl. Writ., i, p. 362.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872, *Hygrotrechus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876; iii, p. 453, 1877, *Hygro-*
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1331, *Hygrotrechus*. [*trechus*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 435, 1878, *Hygrotrechus*.
Uhler, Stand. Nat. Hist., ii, p. 267, fig. 322, 1884, *Hygrotrechus*.
Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Hygrotrechus*.
Gillette and Baker, Hemip. Colo., p. 60, 1895, *Hygrotrechus*.
Champion, Biol. Centr. Am., Heter., ii, p. 145, 1898.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Hygrotrechus*.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 246, 1911.
†*aptera* Walker, Cat. Heter., viii, p. 165, 1873.
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., Md., N. C., Ga., La., Mich., Ill., Colo., Texas, N. Mex., Ariz., Calif., Ore. (Mexico, Centr. Am.)

1284. **Gerris orba** Stål

Stål, Freg. Eugen. Resa, Ins., p. 264, 1859.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914, *Hygrotrechus*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech Bul., i, p. 235, 1916.
Localities: Calif. Ore., Nev.

1285. **Gerris conformis** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 435, 1878, *Hygrotrechus*.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905; xvi, p. 233, 1908; xviii, p. 31,
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910. [1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 247, 1911.
Parshley, Psyche, xxi, p. 144, 1914.
Localities: Me., Mass., N. Y., N. J., Md., N. C. (Mexico.)

1286. **Gerris robusta** (Uhl.)

Uhler, Am. Jl. Sci., ser. 3, i, p. 105, 1871, *Hygrotrechus*.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894, *Hygrotrechus*.
?Champion, Biol. Centr. Am., Heter., ii, p. 146, 1898.
Bueno, Ent. News, xxiv, p. 21, 1913.
Localities: Calif. (Mexico.)

Subgenus **Gerris** Fabr.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911.
Limnotrechus Stål, Of. Vet. Akad. Forh., xxvii, p. 395, 1868.
Uhler, Stand. Nat. Hist., ii, p. 268, 1884.
Uhler, Check List, p. 26, 1886.
Puton, Cat. Hémip. Palae., p. 37, 1886.

1287. **Gerris gillettei** Leth. & Serv.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 60, 1896 (n.n. for *productus* Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 209, 1908. [Uhl.).
Bueno, Ent. News, xxiv, p. 21, 1913.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.
‖*productus* Uhler, Hemip. Colo., p. 61, 1895, *Limnotrechus.*
Localities: Colo., Utah, Mont., Calif.

1288. **Gerris marginatus** Say

Say, Heter. N. Harm., p. 36, 1832; Fitch reprint, p. 807; Compl. Writ., i, p. 362.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 423, 1872, *Limnotrechus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 453, 1877; iv, p. 508, 1878, *Limno-*
Uhler, Proc. Bost. Soc. Nat. Hist., ii, p. 268, 1884, *Limnotrechus.* [*trechus.*
Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Limnotrechus.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905; xvi, p. 233, 1908.
Bueno, Can. Ent., xlii, p. 150, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 247, 1911.
Weiss, Can. Ent., xlvi, p. 33, 1914 (tropisms).
?†*lacustris* Kirby, Richardson's Fauna Bor. Am., iv, p. 283, 1837.
Kirby *in* Bethune's Reprint, p. 138.
Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., D. C., Va., N. C., Ohio, Mich., Ill., Mo., Ia., Kan., Colo., Manitoba, Calif., Ore.

1288½. **Gerris argenticollis** Parsh.

Parshley, Ent. News, xxvii, p. 103, 1916.
Localities: Mass., S. C.

1289. **Gerris buenoi** Kirk.

Kirkaldy, Ent. News, xxii, p. 246, 1911.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 248, 1911.
Parshley, Psyche, xxi, p. 144, 1914.
?†*canaliculatus* Provancher, Pet. Faune Ent. Can., iii, p. 196, 1888.
Van Duzee, Can. Ent., xliv, p. 324, 1912.
[*sulcatus* Uhl. MS] Bueno, Jl. N. Y. Ent. Soc., xiii, p. 40, 1905.
Localities: Quebec, Me., N. J., Colo., Manitoba.

1290. **Gerris canaliculatus** Say

Say, Heter. N. Harm., p. 36, 1832; Fitch reprint, p. 807; Compl. Writ., i, p
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 233, 1908. [363
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 248, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: R. I., N. Y., N. J., N. C., Ga., Fla.

Genus **Limnoporus** Stål

Haplotype *rufoscutellatus* Latr.

Stål, Of. Vet. Akad. Forh., xxvii, pp. 395, 396, 1868 (as genus).
Puton, Synop. Heter. Fr., i, p. 153, 1879 (as genus).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 209, 1908 (as genus).
Bergroth, Proc. U. S. Natl. Mus., li, p. 237, 1916.

1291. **Limnoporus rufoscutellatus** Latr.

Latreille, Genera Crust. Ins., iii, p. 134, 1807.
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 514, 1816.
Le Peletier and Serville, Encyc. Méth. x, p. 266, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 23, 1832.
Schummel, Ploteres, p. 32, 1832.
Herrich-Schaeffer, Nomen. Ent., i, p. 62, 1835. [p. 138.
Kirby *in* Richardson, Fauna Bor. Am., iv, p. 282, 1837; Bethune's reprint,
Herrich-Schaeffer, Wanz. Ins., ix, pp. 67, 69, fig. 924, 1853, *Hydrometra*.
Flor, Rhyn. Livl., i, p. 736, 1860, *Hydrometra*.
Fieber, Europ. Hemip., p. 106, 1861, *Hydrometra*.
Stål, Of. Vet. Akad. Forh., xxv, p. 396, 1868.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876; iii, p. 453, 1877; iv, p.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 437, 1878. [508, 1878.
Reuter, Revue Synon., p. 362, No. 334, 1888.
Provancher, Pet. Faune Ent. Can., iii, p. 195, 1888.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 233, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., Mich., Ill., Wisc., Dak., Colo., Ariz., Br. Col.

Genus **Tenagogonus** Stål
Haplotype *albovittatus* Stål

Stål, Of. Vet. Akad. Forh., x, p. 263, 1853 (*nomen nudum*).
Stål, Of. Vet. Akad. Forh., xii, p. 45, 1855.
Stål, Hemip. Afr., iii, p. 168, 1865.
Bergroth, Zool. Med., Rijks Mus. Nat. Hist., Leiden, i, p. 123, 1915.
Limnometra Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 443, 1865.
Mayr, Reise Freg. Novara, Zool., ii, p. 174, 1868.
Champion, Biol. Centr. Am., Heter., ii, p. 150, 1898.
Limnogonus Stål, Hemip. Fabr., i, p. 132, 1868 (logotype *hyalinus*).
Champion, Biol. Centr. Am., Heter., ii, p. 151, 1898.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906 (subgenus).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 210, 1908.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911 (subgenus).
Lamprotrechus Reuter, Of. Finska Vet. Soc. Forh., xxv, p. 40, 1882 (type [*leptocera* Reut.).

1292. **Tenagogonus hyalinus** (Fabr.)

Fabricius, Syst. Rhyng., p. 258, 1803, *Hydrometra*.
Stål, Hemip. Fabr., i, p. 133, 1868 (redescribed).
Champion, Biol. Centr. Am., Heter., ii, p. 153, pl. 9, fig. 18, 1898.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 245, 1911.

Localities: Fla. (Neotropical.)

1293. **Tenagogonus franciscanus** Stål

Stål, Freg. Eugen. Resa, Ins., p. 265, 1859.
Stål, Hemip. Fabr., i, p. 133, 1868.

Locality: Calif.

1294. **Tenagogonus hesione** Kirk.

Kirkaldy, Entomologist, xxxv, p. 137, 1902.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: Ohio, Fla.

Subfamily HALOBATINAE Bian.

Bianchi, Ann. Mus. Petersb. for 1896, p. 69.
Kirkaldy, Ann. Soc. Ent. Belg., xliii, p. 509, 1899, *Halobatitae.*
Distant, Fauna Br. Ind., Rhyn., ii, p. 186, 1903, Div. *Halobatinaria.*
Bergroth, Ohio Nat., viii, p. 371, 1908.
Bueno, Trans. Am. Ent. Soc., xxxvii, pp. 244, 249, 1911.

Genus **Metrobates** Uhl.
Haplotype *hesperius* Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 108, 1871; xix, p. 437, 1878.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 155, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 210, 1908.
Bueno, Trans. Am. Ent. Soc., xxxvii, pp. 246, 249, 1911.

1295. **Metrobates hesperius** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 109, 1871; xix, p. 438, 1878.
Uhler, Stand. Nat. Hist., ii, p. 271, 1884.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 249, 1911.
Bueno, Can. Ent., xliii, p. 228, 1911.
Parshley, Psyche, xxi, p. 144, 1914.
Localities: Ont., Me., Mass., N. Y., Md., N. C., S. C.

Genus **Trepobates** Uhl.
Orthotype *pictus* (H. S.)

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 213 (n.n. for *Stephania* White, with
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906. [characters).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 212, 1908.
Bergroth, Ohio Nat., viii, p. 373, 1908.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 245, 1911. [type *pictus* H. S.).
‖*Stephania* White, Challenger Rept., Zool., vii, pt. 19, p. 79, 1883 (ortho-
Halobatopsis Bianchi, Ann. Mus. Petersb., i, p. 70, 1896 (type *platensis*
[Berg.).

1296. **Trepobates pictus** (H. S.)

Herrich-Schaeffer, Wanz. Ins., viii, p. 111, figs. 882, 883, 1848, *Halobates.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 437, 1878, *Halobates.*
B. White, Challenger Rept., Zool., vii, pt. 19, p. 79, 1883, *Stephania.*
Uhler, Stand. Nat. Hist., ii, p. 270, 1884, *Stephania.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 213.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 234, 1908.
Bergroth, Ohio Nat. viii, p. 372, 1908.
Bueno, Ohio Nat., ix, p. 389, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 151, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 251, 1911.

Parshley, Psyche, xxi, p. 144, 1914.
beginii Ashmead, Can. Ent., xxix, p. 56, 1897, *Halobatopsis* (part).
Localities: Me., Mass., N. Y., N. J., Pa., Md., Va., N. C., Fla., La., Ohio, Ill., Tenn., Ariz.

Genus **Rheumatobates** Bergr.
Haplotype *rileyi* Bergr.

Bergroth, Insect Life, iv, p. 321, 1892 (without description).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 212, 1908.
Bergroth, Ohio Nat., viii, p. 379, 1908.
Bueno, Trans. Am. Ent. Soc., xxxviii, pp. 245, 246, 1911.
Hymenobates Uhler, Proc. Zool. Soc. Lond. for 1894, p. 214.

1297. **Rheumatobates rileyi** Bergr.

Zabriski, Jl. N. Y. Micros. Soc., vii, p. 128, 1891 (as unknown water-bug).
(Anonymous), Insect Life, iv, p. 198, 1892 (description and figure without
Bergroth, Insect Life, iv, p. 321, 1892 (n.n. for preceding reference). [name).
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 41, 1905; xvi, p. 234, 1908.
Bergroth, Ohio Nat., viii, p. 381, 1908.
Bueno, Ohio Nat., ix, p. 390, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 152, 1910.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 250, 1911.
Bueno, Can. Ent., xliii, p. 228, 1911.
Bueno, Can. Ent., xliv, p. 212, 1912.
beginii Ashmead, Can. Ent., xxix, p. 56, 1897, *Halobatopsis* (part).
Localities: N. Y., N. J., D. C.

1298. **Rheumatobates tenuipes** Minert

Minert, Ent. Medd., v, p. 7, 1895.
Bergroth, Ohio Nat., viii, p. 381, 1908.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 250, 1911.
Locality: D. C.

1298½. **Rheumatobates trulliger** Bergr.

Bergroth, Bul. Brookl. Ent. Soc., x, p. 63, 1915.
Locality: Ga.

Genus **Halobates** Eschs.
Logotype *micans* Eschs.

Eschscholtz, Entomographien, p. 106, 1822; Nat. Abh. Dorpat, i, p. 162, 1823.
Laporte, Essai Classif. Syst. Hémip., p. 24, 1832 (names *micans* type).
Burmeister, Handb. d. Ent., ii, p. 208, 1835.
Spinola, Essai sur les Hémip., p. 63, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
Amyot and Serville, Hémip., p. 411, 1843.
Herrich–Schaeffer, Wanz. Ins., viii, p. 108, 1848.
Spinola, Tavola Sinot., p. 42, 1850.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 169, 1868.
B. White, Challenger Repts., Zool., vii, pt. 19, p. 23, 1883.
Uhler, Stand. Nat. Hist., ii, p. 269, 1884.
Distant, Fauna Br. Ind., Rhyn., ii, p. 186, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 156, 1906.

1299. **Halobates micans** Eschs.

Eschscholtz, Entomographien, p. 107, 1822; Nat. Abh. Dorpat, i, p. 163, pl. 2, fig. 3, 1823.
Laporte, Essai Classif. Syst. Hémip., p. 24, 1832.
Burmeister, Handb. d. Ent., ii, p. 208, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
Herrich-Schaeffer, Wanz. Ins., viii, p. 110, 1848.
Frauenfeld, Verh. Zool.-Bot. Ges. Wien, xvii, p. 458, pl. 12, fig. 5, 1867.
B. White, Challenger Rept., Zool., vii, pt. 19, p. 43, pl. 1, fig. 2, 1883.
Bueno, Trans. Am. Ent. Soc., p. 251, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: Fla. (Tropical oceans.)

1300. **Halobates sericeus** Eschs.

Eschscholtz, Entomographien, p. 108, 1822; Nat. Abh. Dorpat, i, p. 163, pl. 2, fig. 4, 1823.
Burmeister, Handb. d. Ent., ii, p. 209, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 98, 1840.
Amyot and Serville, Hémip., p. 412, 1843.
Herrich-Schaeffer, Wanz. Ins., viii, p. 110, figs. 880, 881, 1848.
B. White, Challenger Rept., Zool., vii, pt. 19, p. 47, pl. 1, fig. 7, 1883.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 213, 1908.
Localities: Calif. (Pacific Ocean.)

Family VELIIDAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. 1, 418, 1843, Groupe *Velides*.
Dohrn, Cat. Hemip., p. 53, 1859, *Velidae*.
Stål, Hemip. Afr., iii, p. 167, 1865, *Veliida*.
Douglas and Scott, Brit. Hemip., pp. 42, 569, 1865, *Veliidae*.
Stål, Of. Vet. Akad. Forh., xxvii, p. 705, 1870, *Veliina*.
Uhler, Stand. Nat. Hist., ii, p. 271, 1884.
Berg, Hemip. Argent. Add., p. 117, 1884, Subfam. *Veliina*.
Uhler, Check List, p. 27, 1886.
Puton, Cat. Hémip. Palae., p. 36, 1886, Tribe *Veliini*.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 55, 1896, Subfam. *Velidae*.
Champion, Biol. Centr. Am., Heter., ii, p. 126, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 171, 1903, Subfam. *Veliinae*.
Bergroth, Wien. Ent. Zeit., xxv, p. 7, 1906, *Veliadae*.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906. [*Veliinae*.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 204, 1908, Subfam.
Oshanin, Verz. Palae. Hemip., i, p. 487, 1908, Subfam. *Veliina*.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 66, 81, 1910, *Veliadae*.
Bueno, Trans. Am. Ent. Soc., xxxvii, p. 244, 1911, Subfam. *Veliinae*.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 54, 1912.
Oshanin, Kat. Palae. Hemip., p. 87, 1912.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 52, 1916.
Hydroessae Fieber, Europ. Hemip., pp. 23, 33, 104, 1861.

Genus **Microvelia** Westw.
Logotype *pygmaea* (Duf.)

Westwood, Ann. Soc. Ent. Fr., iii, p. 647, 1834 (for *pygmaea* and *pulchella*).
Brullé, Hist. Nat. des Ins., ix, p. 295, 1835.

Blanchard, Hist. Nat. des Ins., Hémip., p. 96, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *pygmaca*
Amyot and Serville, Hémip., p. 421, 1843. [type).
Spinola, Tavola Sinot., p. 43, 1850.
Douglas and Scott, Brit. Hemip., p. 573, 1865.
Uhler, Stand. Nat. Hist., ii, p. 275, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 126, 1898.
Distant, Fauna Br. Ind., Rhyn., ii, p. 174, 1903 (names *pulchella* pseudotype).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (cites *pygmaea* as type).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.
Bueno, Can. Ent., xlii, p. 1910.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.

Hydroëssa Burmeister, Handb. d. Ent., ii, p. 213, 1835 (logotype *reticulata*
Flor, Rhyn. Livl., i, p. 747, 1860. [Burm. = *pygmaea* Duf.).
Fieber, Europ. Hemip., pp. 33, 104, 1861.
Herrich-Schaeffer, Wanz. Ins., vi, p. 37, 1842; ix, p. 78, 1853.
Stål, Hemip. Afr., iii, p. 167, 1865. [Auct.).

Veliomorpha Carlini, Ann. Mus. Genova, xxxv, p. 120, 1895 (type *maculata*

Subgenus **Microvelia** Westw.

Bueno, Can. Ent., xlii, p. 186, 1910.

1301. **Microvelia signata** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 288, 1894.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 208, 1908.
Localities: Calif., Colo.(?). (Mexico.)

1302. **Microvelia marginata** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1893, p. 719; for 1894, p. 219.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: N. J., Md., Fla., Calif. (Neotropical.)

1303. **Microvelia borealis** Bueno

¶Bueno *in* Smith's Cat. Ins. N. J., edn. 3, p. 150, 1910 (n.n. for "*pulchella*
¶Parshley, Psyche, xxi, p. 145, 1914. [*auct.* Am.")
Bueno, Bul. Brookl. Ent. Soc., xi, p. 59, 1916 (description).
†*pulchella* Bueno; Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.
Van Duzee, Check List Hemip., p. 49, 1916.
Rhagovelia sp. Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.
Localities: N. Y., N. J.

1304. **Microvelia albonotata** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 129, pl. 8, fig. 17, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 24, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 58, 1916.
†*capitata* Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908, *Rhagovelia.*
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.
Van Duzee, Check List Hemip., p. 49, No. 1305, 1916.
Localities: N. Y., N. J., Md., Fla., Ill.

(1305. *See* no. 1304)

1306. **Microvelia robusta** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 219.
Locality: Fla.

1306¼. **Microvelia atrata** Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 60, 1916.
Locality: Ga.

1306½. **Microvelia fontinalis** Bueno.

Bueno, Bul. Brookl. Ent. Soc., xi, p. 58, 1916.
Localities: N. Y., N. J.

Subgenus **Kirkaldya** Bueno
Haplotype *americana* Uhl.

Bueno, Can. Ent., xlii, p. 186, 1910.

1307. **Microvelia americana** (Uhl.)

Uhler, Stand. Nat. Hist., ii, p. 274, 1884, *Hebrus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Hebrus.*
Uhler, Hemip. Colo., p. 61, 1895 (as new).
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905.
Bueno., Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.
Bueno and Brimley, Ent. News, xviii, p. 438, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908, *Rhagovelia.*
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 31, 1910.
Bueno, Can. Ent., xlii, p. 176, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 57, 1916.
Localities: Ont., Me., N. H., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., Kans., Colo., N. Mex., Calif.

Genus **Macrovelia** Uhl.
Haplotype *hornii* Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.

1308. **Macrovelia hornii** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 422, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 289, 1894.
Gillette and Baker, Hemip. Colo., p. 62, 1895.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 207, 1908.
Localities: Colo., N. Mex., Ariz., Calif.

Genus **Rhagovelia** Mayr
Logotype *nigricans* Burm.

Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 445, 1865.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 180, 1868.
Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. liv, 1877.
Champion, Biol. Centr. Am., Heter., ii, p. 131, 1898.
Kirkaldy, Bol. Mus. Zool. Anat. Torino, xiv, No. 350, p. 5, 1899.

Kirkaldy, Entomologist, xxxiii, p. 71, 1900.
Carpenter, Entomologist, xxxiv, p. 109, 1901.
Kirkaldy, Entomologist xxxiv, p. 286, 1901 (names *nigricans* type).
Kirkaldy, Entomologist, xxxiv, p. 308, 1901. (Key.)
Distant, Fauna Br. Ind., Rhyn., iii, p. 171, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.
Bueno, Can. Ent., xxxix, p. 61, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 205, 1908.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 55, 1916.

Boccula Stål, Hemip. Afr., iii, p. 167, 1865 (no species named, invalid).
Neovelia B. White, Jl. Linn. Soc. Lond., xiv, p. 487, 1879 (type *trailii* Wht.).
Trochopus Carpenter, Ent. Mo. Mag., xxxiv, p. 78, 1898 (type *marinus* Champion, Biol. Cent. Am., Heter., ii, p. 140, 1898. [Carp.).

1309. **Rhagovelia obesa** Uhl.

Uhler, Proc. Bost. Soc. Nat. Hist., xiv, p. 107, 1871; xix, p. 434, 1878.
Uhler, Stand. Nat. Hist., ii, p. 272, 1884.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 289, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 42, 1905.
Bueno, Can. Ent., xxxix, p. 61, 1907.
Bueno and Brimley, Ent. News, xviii, p. 438, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 233, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 150, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.

†*collaris* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 500, 1914.
Localities: Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., Va., N. C., Fla., S. C., Ohio, Mich., Tenn., Utah, Calif.

[**aeneipes** Sign. MS]

Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. lv, 1877 (probably = *obesa* Uhl.).
Locality: "Niagara Falls" (where *obesa* is common).

1310. **Rhagovelia distincta** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 135, pl. 8, figs. 25, 26, 27, 1898.
Kirkaldy, Entomologist, xxxiv, p. 309, 1901.

[*distincta* Uhl. MS] Walker, Cat. Heter., viii, p. 161, 1873 (no description).
mexicana Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. lv, 1877 (no description).
Locality: "Ind." (Walker).

1311. **Rhagovelia armata** (Burm.)

Burmeister, Handb. d. Ent., ii, p. 212, 1835, *Velia*.
Mayr, Verh. Zool.-Bot. Ges. Wien, xv, p. 446, 1866.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876, *Velia*.
Signoret, Bul. Soc. Ent. Fr., ser. 5, vii, p. liv, 1877.
Champion, Biol. Centr. Am., Heter., ii, p. 135, pl. 8, fig. 24, 1898.
Localities: Texas. (Mexico.)

1312. **Rhagovelia plumbea** Uhl.

Uhler, Proc. Zool. Soc. Lond. for 1894, p. 217.
Kirkaldy, Entomologist, xxxiii, p. 72, 1900; xxxiv, p. 309, 1901.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 56, 1916.
marinus Carpenter, Ent. Mo. Mag., xxxiv, p. 78, 1898, *Trachopus.*
Localities: Fla. (West Indies.)

Genus **Velia** Latr.
Type *rivulorum* (Fabr.)

Latreille, Nouv. Dicty. Hist. Nat., xxiv, Tabl. Meth., pp. 163–168, 1804.
Latreille, Hist. Nat. Crust. Ins., xii, p. 269, 1804 (lists *rivulorum* and three [others).
Latreille, Genera Crust. Ins., iii, p. 132, 1807 (lists *rivulorum* and *currens*).
Latreille, Consid. Génl., pp. 258, 434, 1810 (names *rivulorum* type).
Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (for *rivulorum*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 512, 1816.
Laporte, Essai Classif Syst. Hémip., p. 23, 1832 (cites *rivulorum* as type).
Burmeister, Handb. d. Ent., ii, p. 211, 1835.
Herrich–Schaeffer, Nomen. Ent., i, pp. 38, 62, 99, 1835.
Brullé, Hist. Nat. des Ins., ix, pp. 291, 293, 1835.
Spinola, Essai sur les Hémip., p. 66, 1837 (1840).
Blanchard, Hist. Nat. des Ins. Hémip., p. 96, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *rivulorum*
Amyot and Serville, Hémip., p. 419, 1843. [as type).
Spinola, Tavola Sinot, p. 43, 1850.
Herrich–Schaeffer, Wanz. Ins., ix, p. 75, 1853.
Flor, Rhyn. Livl., i, p. 744, 1860.
Fieber, Europ. Hemip., pp. 33, 105, 1861.
Stål, Hemip. Afr., iii, p. 167, 1865.
Douglas and Scott, Brit. Hemip., p. 569, 1865.
Puton, Synop. Heter. Fr., ii, p. 149, 1879.
Reuter, Ent. Tidskr., iii, p. 167, 1882.
Berg, Hemip. Argent., Add., p. 117, 1884.
Uhler, Stand. Nat. Hist., ii, p. 272, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 141, 1898. [type).
Distant, Fauna Br. Ind., Rhyn., ii, p. 172, 1903 (names *currens* Fabr. pseudo-
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906 (cites *rivulorum* as type).
Bueno, Bul. Brookl. Ent. Soc., xi, p. 53, 1916.

1313. **Velia stagnalis** Burm.

Burmeister, Handb. d. Ent., ii, p. 212, 1835.
Champion, Biol. Centr. Am., Heter., ii, p. 142, 1898 (comparative notes).
Bueno and Brimley, Ent. News, xviii, p. 438, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 205, 1908.
Bueno, Bul. Brookl. Ent. Soc., xi, p. 54, 1916.
Localities: Pa., D. C., N. C. (West Indies.)

1314. **Velia brachialis** Stål

Stål, Rio Jan. Hemip., i, p. 82, 1860.
Champion, Biol. Centr. Am., Heter., ii, p. 141, pl. 9, figs. 6, 7, 1898.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
†*stagnalis* Uhler, Proc. Zool. Soc. Lond for 1894, p. 215.
Localities: "N. Am.," Fla., Ariz.

1315. **Velia annulipes** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 142, pl. 9, fig. 8, 1898.
Kirkaldy and Bueno, Proc. Ent., Soc. Wash., x, p. 204, 1908.
Localities: Ariz. (Neotropical.)

1315½. **Velia australis** Bueno

Bueno, Bul. Brookl. Ent. Soc., xi, p. 54, 1916.
Localities: Ga., Fla.

Superfamily LEPTOPODOIDEA Van D.

Van Duzee, Check List Hemip., p. 50, 1916 (n.n. for *Acanthioideae* Reut.).
Acanthioideae Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 63, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 87, 1912.

PHALANX *LEPTOPODIFORMES* (Brul.)

Brullé, Hist. Nat. des Ins., ix, p. 279, 1835, *Leptopodiens* (Family).
Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840, *Leptopodiens* (Family).
Van Duzee, Check List Hemip., p. 50, 1916.
Acanthides Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815 (Tribe).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (as family).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906 (as family).
Oshanin, Verz. Palae. Hemip., i, p. 581, 1908 (as family).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 175, 1908 (as family).
Kirkaldy, Can. Ent., xl, p. 361, 1908 (as family).
Kirkaldy, Cat. Hemip., i, p. xxiv, 1909 (as family).
Oculatae Latreille, Fam. Nat. Règne Anim., p. 423, 1825 (as tribe).
Amyot and Serville, Hémip., pp. xlix, 401, 1843, Tribe *Oculati*.
Flor, Rhyn. Livl., i, p. 702, 1860 (as family).
Walker, Cat. Heter., viii, p. 153, 1873.
Riparii Burmeister, Handb. d. Ent., ii, p. 215, 1835 (as family).
Pelogonitae Spinola, Tavola Sinot., pp. 27, 49, 1850 (in part; as family).
Saldidae Dohrn, Cat. Hemip., p. 51, 1859 (Family).
Puton, Synop. Hémip. Fr., i, pp. 4, 192, 1879.
Puton, Cat. Hémip. Palae., edn. 3, p. 41, 1886, *Saldides* (Family).
Lethierry & Severin, Cat. Génl. Hémip., iii, p. 215, 1896 (Family).
Distant, Fauna Brit. Ind., Rhyn., ii, p. 404, 1904 (Family).
Acanthiiformes Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 64, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 17, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 87, 1912.

Family SALDIDAE (Am. & Serv.)

Amyot and Serville, Hémip., p. xlix, 1843, Groupe *Saldides*.
Costa, Cimic. Reg. Neap., Cent., iii, p. 66, 1852.
Fieber, Europ. Hemip., pp. 25, 40, 144, 1860.
Stål, Hemip. Fabr., i, p. 90, 1868, *Saldida*.
Stål, Of. Vet. Akad. Forh., xix, p. 387, 1868.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 429, 1877, *Saldae*.
Puton, Synop. Heter. Fr., i, p. 193, 1879, Tribe *Saldini*.

Uhler, Check List, p. 27, 1886.
Puton, Cat. Hémip. Palae., edn. 3, p. 41, 1886, Tribe *Saldini*.
Provancher, Pet. Faune Ent. Can., iii, p. 187, 1888.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 215, 1896 (Subfamily).
Champion, Biol. Centr. Am., Heter., ii, p. 338, 1900.
Distant, Fauna Br. Ind., Rhyn., ii, p. 404, 1904, Subfamily *Saldinae*.
Banks, Cat. Neare. Hemip., p. 11, 1910.
Van Duzee, Ent. News, xxi, p. 142, 1910; xxii, p. 432, 1911.

Subfamily **SALDINAE** n.n.

Acanthiinae Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 6, [1912.

[The following references to *Salda* and *Acanthia* really refer to this subfamily.]

Genus **Salda** Auct.

Fabricius, Syst. Rhyng., p. 113, 1803 (indicates *zosterae* as type).
Fallén, Monog. Cimic. Suec., p. 28, 1807.
Fallén, Hemip. Suec., Cimic., p. 71, 1829.
Hahn, Wanz. Ins., ii, p. 81, 1834.
Burmeister, Handb. d. Ent., ii, p. 215, 1835.
Herrich-Schaeffer, Nomen. Ent., i, pp. 37, 60, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840.
Amyot and Serville, Hémip., p. 404, 1843.
Herrich-Schaeffer, Wanz. Ins., ix, p. 128, 1853.
Flor, Rhyn. Livl., i, p. 703, 1860.
Fieber, Europ. Hemip., pp. 40, 144, 1860.
Douglas and Scott, Brit. Hemip., p. 316, 1865.
Stål, Hemip. Fabr., i, p. 90, 1868.
Stål, Of. Vet. Akad. Forh., xix, p. 387, 1868.
Thomson, Opusc. Ent., iv, p. 403, 1871.
Walker, Cat. Heter., viii, p. 154, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 430, 1877.
Berg, Hemip. Argent., p. 293, 1879.
Douglas, Ent. Mo. Mag., xix, p. 203, 1883.
Uhler, Check List, p. 27, 1886.
Puton, Cat. Hemip. Palae., edn. 3, p. 41, 1886.
Provancher, Pet. Faune Ent. Can., iii, p. 188, 1888.
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 215, 1896.
Champion, Biol. Centr. Am., Heter., ii, p. 338, 1900.
Distant, Fauna Br. Ind., Rhyn., ii, p. 404, 1904.
Van Duzee, Ent. News, xxi, p. 141, 1910.
Banks, Cat. Neare. Heter., p. 11, 1910. [to littoral forms.)

†*Acanthia* Latreille, Précis, p. 85, 1796. (No species named, but restricted
Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1802 (*littoralis* and *zosterae* [as examples).
Latreille, Hist. Nat. Crust. Ins., xii, p. 240, 1804 (includes five species).
Latreille, Genera Crust. Ins., iii, p. 142, 1807.
Latreille, Consid. Génl., pp. 259, 434, 1810 (names *saltatoria* type).
Leach, Brewster's Edinbg. Encyc., ix, p. , 1815 (for *maculata*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 507, 1816.

Latreille, Fam. Nat. Règne Anim., p. 423, 1825, *Acanthie.* [type).
Laporte, Essai Classif. Syst. Hémip., p. 52, 1832 (names *saltatoria* Fabr.
Brullé, Hist. Nat. des Ins., ix, p. 280, 1835.
Curtis, Brit. Ent., xii, pl. 548, 1835.
Spinola, Essai sur les Hémip., p. 76, 1837 (1840).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *salta-*
Spinola, Tavola Sinot., p. 49, 1850. [*toria* Linn. as type).
Stål, Enum. Hemip., iii, p. 148, 1873.
Reuter, Ent. Mo. Mag., xvi, p. 172, 1880; xvii, p. 14, 1881.
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 3, 1895.
Kirkaldy, Entomologist, xxxii, p. 219, 1899 (states that Latreille in [1797 named *littoralis* as type, which is incorrect).
Bergroth, Wien. Ent. Zeit., xxv, p. 7, 1906.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 148, 1906.
Reuter, Ent. Mo. Mag., ser. 2, xix, p. 26, 1908.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 175, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 581, 1908.
Horvath, Ann. Mus. Natl. Hung., ix, p. 335, 1911.

Genus **Pentacora** Reut.
Orthotype *signoreti* (Guer.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 10, 1912.

1316. **Pentacora signoreti** (Guer.)

Guerin *in* Sagra, Hist. Isl. de Cuba, Ins., p. 401, pl. 13, fig. 10, 1857, *Salda.*
Stål, Enum. Hemip., iii, p. 148, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 431, 1877, *Salda.*
Uhler, Stand. Nat. Hist., ii, p. 265, fig. 321, 1884, *Salda.*
Champion, Biol. Centr. Am., Heter., ii, p. 339, pl. 20, fig. 2, 1900, *Salda.*
Barber, Brookl. Inst., Sci. Bul., i, p. 287, 1906, *Salda.*
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
ornata (Stål), Stet. Ent. Zeit., xxiii, p. 458, 1862, *Salda.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Localities: Mass., N. J., Md., N. C., Ga., Fla., Texas, Calif. (Neotropical.)

1317. **Pentacora hirta** (Say)

Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.* [359, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 436, 1877, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912, *Acanthia.*
[*vagata* Uhler MS] Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906, [*Salda.*
Localities: Quebec, Conn., N. Y., N. J., Fla., Ind., Texas.

1318. **Pentacora ligata** (Say)

Say, Heter. N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.* [359, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 432, 1877, *Salda.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Salda.*

Provancher, Pet. Faune Ent. Can., iii, p. 189, 1888, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 184, 1894, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 11, 1912.
Parshley, Psyche, xxi, p. 140, 1914.

variegata Provancher, Nat. Can., iv, p. 107, 1872, *Salda.*

Localities: Quebec, Ont., Me., Mass., N. Y., Md., N. C., Ind., Ill., Minn., Neb.

Genus **Chiloxanthus** Reut.
Logotype *pilosus* (Fall.)

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 4, 6, 1895.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 11, 1912.

1319. **Chiloxanthus stellata** (Curt.)

Curtis, Ross' 2d Voy., App., p. lxxv, 1835, *Acanthia.*
Curtis, Brit. Ent., xii, pl. 548, 1835, *Acanthia.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda.*

Localities: "Aretic Am.," Pt. Barrow.

Genus **Salda** Fabr.
Orthotype *zosterae* (Fabr.) = *littoralis* (Linn.)

Fabricius, Syst. Rhyn., p. 113, 1803 (names *zosterae* as type).
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 7, 13, 1912.

Sciodopterus Amyot and Serville, Hémip., p. 404, 1843 (type *flavipes* [Fabr. = *littoralis* Linn.).

Provancher, Pet. Faune Ent. Can., iii, p. 191, 1888.
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 5, 7, 1895 (as subgenus).

1320. **Salda littoralis** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 442, 1758, *Cimex.*
Linnaeus, Fauna Suec., edn. 2, p. 246, No. (910) 914, 1761, *Cimex.*
De Geer, Mémoires, iii, p. 278, pl. 14 (24), figs. 17, 18, 1773, *Cimex.*
Fabricius, Syst. Ent., p. 694, 1775, *Acanthia.*
Retzius, Genera et Spec. Ins., p. 86, 1783, *Cimex.*
Latreille, Hist. Nat. Crust. Ins., iii, p. 247, 1801; xii, p. 242, 1804, *Acanthia.*
Fallén, Monog. Cimic. Suec., p. 28, 1807, *Salda.*
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 508, 1816, *Acanthia.*
Zetterstedt, Fauna Lapp., p. 477, 1828, *Salda.*
Fallén, Hemip. Suec., Cimic, p. 71, 1829, *Salda.*
Zetterstedt, Ins. Lapp., column, 267, 1840, *Salda.*
Flor, Rhyn. Livl., i, p. 709, 1860, *Salda.*
Fieber, Europ. Hemip., p. 147, 1861, *Salda.*
Douglas and Scott, Brit. Hemip., p. 528, 1865, *Salda.*
Stål, Hemip. Fabr., i, p. 90, 1868, *Salda.*
Stål, Of. Vet. Akad. Forh., xxv, p. 387, 1868, *Salda.*
Thomson, Opusc. Ent., iv, p. 403, 1871, *Salda.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 439, 1877, *Salda.*
Reuter, Rev. Synon., p. 337, No. 302, 1888, *Acanthia.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda.*
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 35, 1895, *Acanthia.*

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 13, 1912.
zosterae (Fabricius), Genera Ins., p. 299, 1776, *Acanthia.*
Fabricius, Spec. Ins., ii, p. 335, 1781, *Acanthia.*
Fabricius, Ent. Syst., iv, p. 68, 1794, *Acanthia.*
Fabricius, Syst. Rhyn., p. 113, 1803.
Burmeister, Handb. d. Ent., ii, p. 216, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840.
Verhoeff, Ent. Nachr., xvii, p. 345, 1891 (as variety).
pellucens (Fabricius), Reise Norw., p. 234, 1779, *Acanthia.*
†*flavipes* Fieber, Wien. Ent. Monat., iii, p. 238, 1859.
Fieber, Europ. Hemip., p. 147, 1861.
Verhoeff, Ent. Nachr., xvii, p. 344, 1891.
obscura Provancher, Nat. Can., iv, p. 107, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 190, 1888.
Localities: Quebec, N. Y., Ind., Ill., Utah, Calif.

1321. **Salda coriacea** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 436, 1877.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 433, 1878.
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 13, 1912.
Van Duzee, Can. Ent., xliv, p. 324, 1912.
Bueno, Ent. News, xxiv, p. 20, 1913, *Acanthia.*
Parshley, Psyche, xxi, p. 140, 1914, *Acanthia.*
bouchervillei (Provancher), Nat. Can., iv, p. 106, 1872, *Sciodopterus.*
Provancher, Pet. Faune Ent. Can., iii, p. 192, 1888, *Sciodopterus.*
Localities: Ont., Me., Mass., N. Y., N. J., Ill., Colo., Utah, Br. Col., Mackenzie River Region.

1322. **Salda anthracina** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 438, 1877.
Localities: N. H., N. Y., Pa.

Genus **Saldula** Van D.
Orthotype *saltatoria* (Linn.)

Van Duzee, Trans. San Diego Soc. Nat. Hist. Soc., ii, p. 32, 1914 (n.n. for
Van Duzee, Can. Ent., xlvi, p. 387, 1914. [*Acanthia* Reut., 1912).
†*Acanthia* Reuter, Acta Soc. Soc. Sci. Fenn., xxi, No. 2, pp. 5, 9, 1895.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, pp. 71, 72, 1912.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 8, 14, 1912.

1323. **Saldula major** (Prov.)

Provancher, Nat. Can., p. 107, 1872, *Salda.*
Provancher, Pet. Faune Ent. Can., iii, p. 190, 1888, *Salda.*
Van Duzee, Can. Ent., xliv, p. 324, 1912, *Salda.*
Parshley, Psyche, xxi, p. 140, 1914, *Acanthia.*
deplanata Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Salda.*
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
Van Duzee, Can. Ent., xliv, p. 324, 1912, *Salda.* [*Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 14, 1912,

†*lugubris* (Uhler), Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876, *Salda.*
Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md., Mich., Ill., Wisc., Mo., Kan., Texas, N. Mex., Minn., Sask., McKenzie River Region

1324. **Saldula confluenta** (Say)

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 805; Compl. Writ., i, p. 361, *Acanthia.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Acanthia.* [
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
‡*confluens* Le Conte, *in* Say, Compl. Writ., i, p. 361, 1859, *Acanthia.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 433, 1877, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 14, 1912,
Banks, Cat. Nearc. Hemip., p. 11, 1910, *Salda.* [*Acanthia*
Localities: Quebec, N. Y., N. J.

1325. **Saldula orbiculata** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 450, 1877, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
Localities: Mass., N. Y., Pa., Ohio, Ill., Texas, Calif.

1326. **Saldula explanata** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, 1912, *Acanthia.*
Localities: Utah, Idaho, Calif., Vanc. Isd.

1327. **Saldula dispersa** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
Localities: Colo., Utah, Nev., Calif.

1328. **Saldula interstitialis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 324, 1825; Compl. Writ., ii, p. 248,
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 421, 1872, *Salda.* [*Acanthia.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 333, 1876; iii, p. 444, 1877, *Salda.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1330, *Salda.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 431, 1878, *Salda.*
Van Duzee, Can. Ent., xxi, p. 6, 1889, *Salda.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Salda.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda.*
Gillette and Baker, Hemip. Colo., p. 62, 1895, *Salda.*
Smith, Cat. Ins. N. J., edn., 3, p. 166, 1910, *Acanthia.*
Van Duzee, Can. Ent., xliv, p. 324, 1912, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 235, 1916.

†*littoralis* (Provancher), Pet. Faune Ent. Can., iii, p. 191, 1888, *Salda*.

Localities: Quebec., Ont., Me., Mass., N. Y., N. J., Pa., Md., Fla., Ind., Ill., Mich., Mo., Dak., Neb., Colo., Texas, N. Mex., Idaho, Calif.

1329. **Saldula separata** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 432, 1878, *Salda*.

Localities: "Canada," N. H., Mass., Pa.

1330. **Saldula reperta** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 447, 1877, *Salda*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Van Duzee, Can. Ent., xliv, p. 324, 1912, *Salda* (misspelled *repleta*).

?†*lugubris* (Provancher), Pet. Faune Ent. Can., iii, p. 191, 1888, *Salda*.

Localities: Quebec, N. H., Mass.

1331. **Saldula xanthochila** (Fieb.)

Fieber, Wien. Ent. Monat., iii, p. 234, 1859, *Salda*.

Fieber, Europ. Hemip., p. 145, 1861, *Salda*.

Puton, Synop. Heter. Fr., i, p. 202, 1879, *Salda*.

Reuter, Rev. Synon., p. 340, No. 305, 1888, *Acanthia*.

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 50, 1895, *Acanthia*.

Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia*.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia*.

Bueno, Ent. News, xxiv, p. 20, 1913.

Localities: N. Y., N. J., Colo., Utah, Nev., Calif. (Palaearctic.)

a. var. **limbosa** (Horv.)

Horvath, Revue d'Ent., x, p. 80, 1891, *Acanthia*.

Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 50, 1895, *Acanthia*.

Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Acanthia*.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia*.

Localities: N. J., Fla. (Palaearctic.)

1332. **Saldula pallipes** (Fabr.)

Fabricius, Ent. Syst., iv, p. 71, 1794, *Acanthia*.

Fabricius, Syst. Rhyn., p. 115, 1803, *Salda*.

Latreille, Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygaeus*.

Zetterstedt, Fauna Lapp., p. 477, 1828, *Salda*.

Fallén, Hemip. Suec., Cimic., p. 73, 1829, *Salda*.

Herrich-Schaeffer, Nomen. Ent., i, p. 60, 1835, *Salda*.

Zetterstedt, Ins. Lapp., column 267, 1840, *Salda*.

Herrich-Schaeffer, Wanz. Ins., vi, p. 43, fig. 600, 1842, *Salda*.

Costa, Cimic. Reg. Neap., Cent., ii, p. 5, pl. 2, fig. 7, 1843, *Salda* (var.)

Fieber, Wien. Ent. Monat., iii, p. 237, 1859, *Salda*.

Flor, Rhyn. Livl., i, p. 715, 1860, *Salda* (part).

Fieber, Europ. Hemip., p. 146, 1861, *Salda*.

Douglas and Scott, Brit. Hemip., p. 527, 1865, *Salda*.

Stål, Hemip. Fabr., i, p. 91, 1868, *Salda* (var. of *saltatoria*).

Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda*.

Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia*.

Douglas and Scott, Ent. Mo. Mag., xii, p. 30, 1875, *Salda*.

Saunders, Synop. Brit. Hemip., p. 634, 1875, *Salda.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 446, 1877, *Salda.*
Reuter, Rev. Synon., p. 339, No. 304, 1888, *Acanthia.*
Reuter, Revue d'Ent., ix, p. 251, 1890, *Acanthia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda* (part).
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 22, 47, 1895, *Acanthia.*
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904, *Salda.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 550, 1905, *Salda.*
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia.*

?pellucidus (Goeze), Ent. Beytr., ii, p. 264, 1778, *Cimex.*
Fourcroy, Ent. Paris., p. 196, 1785, *Cimex.*
†*littoralis* (Schrank), Fauna Boica, ii, p. 63, 1801, *Acanthia.*
stria (Latreille), Hist. Nat. Crust. Ins., xii, p. 243; 1804, *Acanthia.*
†*saltatorius* (Panzer), Fauna Ins. Germ., pl. 92, fig. 13, 1805, *Lygaeus.*
Fallén, Monog. Cimic. Suec., p. 29, 1807, *Salda* (var.*b.*)
marginalis (Turton) *in* Liunaeus, Syst. Nat., edn. 13, Lond. reprint, i, p. [610, 1806, *Cimex.*
dimidiata (Curtis), Brit. Ent., xii, p. 548, 1835, *Acanthia* (variety).
ocellata (Costa), Cimic. Neap., Cent., ii, p. 9, pl. 2, fig. 5, 1843, *Salda.*
luctuosa (Westhoff), Jahrsb. Westf. Prov. Ver., viii, p. 65, 1880, *Salda* [(variety).

Localities: Ont., N. Y., N. J., Md., Colo., Utah, N. Mex., Nev., Calif., Alaska. (Palaearctic.)

1333. **Saldula laticollis** (Reut.)

Reuter, Pet. Nouv. Ent., i, p. 544, 1875, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., xxi, p. 61, 1878, *Acanthia.*
Banks, Cat. Nearc. Heter., p. 12, 1910, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 71, 1912, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*

Localities: Alaska. (Siberia.)

1334. **Saldula sphacelata** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 434, 1877, *Salda.*
Barber, Brookl. Inst. Sci. Bul., i, p. 288, 1906, *Salda.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906, *Salda.*
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Salda.*

Localities: Mass., N. J., Md., Fla., Texas.

1335. **Saldula opacula** (Zett.)

Zetterstedt, Ins. Lapp., column 268, 1840, *Salda.*
Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda.*
Douglas and Scott, Ent. Mo. Mag., xi, p. 9, 1874, *Salda.*
Saunders, Synop. Brit. Hemip., p. 633, pl. 12, fig. 13, 1876, *Salda.*
Puton, Synop. Heter. Fr., i, p. 187, 1879, *Salda.*
Rey, Revue d'Ent., vii, p. 195, 1888, *Salda.*
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 46, 1895, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*

costalis (Sahlberg), Monog. Geoc. Fenn., p. 152, 1848, *Salda.*
†*marginalis* (Herrich-Schaeffer), Wanz. Ins., ix, p. 130, fig. 943, 1853, *Salda.*
Flor, Rhyn. Livl., i, p. 712, 1860, *Salda.*
Fieber, Wien. Ent. Monat., vii, p. 62, 1863, *Salda.*
Stål, Of. Vet. Akad. Forh., xxv, p. 391, 1868, *Salda.*
Localities: Mass. (Palaearctic.)
[This may not be distinct from the preceding.]

1336. **Saldula scotica** (Curt.)

Curtis, Brit. Ent., xii, pl. 548, 1835, *Acanthia.*
Stål, Of. Vet. Akad. Forh., xxv, p. 389, 1868, *Salda.*
Thomson, Opusc. Ent., iv, p. 406, 1871, *Salda.*
Puton, Synop. Heter. Fr., i, p. 196, 1879, *Salda.*
Saunders, Heter. Brit. Isds., p. 177, pl. 16, fig. 6, 1892, *Salda.*
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, pp. 12, 40, 1895, *Acanthia.*
Lethierry and Severin, Cat. Génl. Hémip., iii, p. 223, 1896, *Salda.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 337, 1911, *Acanthia.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
†*litoralis* (Fieber), Wien. Ent. Monat., iii, p. 238, 1859, *Salda.*
Fieber, Europ. Hemip., p. 147, 1861, *Salda.*
hirsutula (Flor), Rhyn. Livl., i, p. 708, 1860, *Salda.*
Fieber, Wien. Ent. Monat., vii, p. 62, 1863, *Salda.*
†*riparia* (Douglas and Scott), Brit. Hemip., p. 530, 1865, *Salda.*
gracilipes (Jakowlev), Horae Soc. Ent. Ross., xii, p. 151, 1879, *Salda.*
Reuter, Act Soc. Sci. Fenn., xxi, p. 34, 1895, *Sciodopterus.*
Localities: "Am. Bor." (Palaearctic.)

1337. **Saldula pellita** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 433, 1877, *Salda.*
Locality: Mass.

1338. **Saldula lugubris** (Say)

Say, N. Harm., p. 34, 1832; Fitch reprint, p. 804; Compl. Writ., i, p. 360, [*Acanthia.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 442, 1877, *Salda.*
Locality: "Mo."

1339. **Saldula elongata** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 448, 1877, *Salda.*
Locality: Brit. Col.

1340. **Saldula luctuosa** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 263, 1858, *Salda.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 445, 1877, *Salda.*
Locality: Calif.

1341. **Saldula saltatoria** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 448, 1758, *Cimex.*
Linnaeus, Fauna Suec., edn. 2, p. 254, No. 953, 1761, *Cimex.*
Fabricius, Syst. Ent., p. 725, 1775, *Cimex.*
Fabricius, Ent. Syst., iv, p. 176, 1794, *Lygaeus.*
Wolff, Icon. Cimic., ii, p. 77, fig. 74, 1801, *Lygaeus.*

Fabricius, Syst. Rhyn., p. 239, 1803, *Lygaeus.*
Fallén, Monog. Cimic. Suec., p. 29, 1807, *Salda.*
Zetterstedt, Fauna Lapp., p. 479, 1828, *Salda.*
Fallén, Hemip. Suec., Cimic., p. 73, 1829, *Salda.*
Laporte, Essai Classif. Syst. Hémip., p. 52, 1832 (as type of *Acanthia*).
Hahn, Wanz. Ins., ii, p. 83, fig. 167, 1834, *Salda.*
Herrich-Schaeffer, Nomen. Ent., i, p. 61, 1835, *Salda.*
Brullé, Hist. Nat. des Ins., ix, p. 281, 1835, *Acanthia.*
Spinola, Essai sur les Hémip., p. 77, 1837 (1840), *Acanthia.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 94, 1840, *Salda.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (as type of
Fieber, Wien. Ent. Monat., iii, p. 235, 1859, *Salda.* [*Acanthia*).
Flor, Rhyn. Livl., i, p. 713, 1860, *Salda.*
Fieber, Europ. Hemip., p. 145, 1861, *Salda.*
Douglas and Scott, Brit. Hemip., p. 522, 1865, *Salda.*
Stål, Of. Vet. Akad. Forh., xxv, p. 390, 1868, *Salda.*
Thomson, Opusc. Ent., iv, p. 407, 1871, *Salda.*
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876, *Salda.*
Puton, Synop. Heter. Fr., i, p. 199, 1879, *Salda.*
Reuter, Berl. Ent. Zeit., xxv, p. 186, 1881, *Salda.*
Reuter, Rev. Synon., p. 338, No. 303, 1888, *Acanthia.*
Reuter, Revue d'Ent., ix, p. 251, 1890, *Acanthia.*
Saunders, Heter. Brit. Isds., p. 180, 1892, *Salda.*
Reuter, Acta Soc. Sci. Fenn., xxi, No. 2, p. 42, 1895, *Acanthia.*
Champion, Biol. Centr. Am., Heter., ii, p. 341, 1900, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 15, 1912, *Acanthia.*
alpinus (Scopoli), Ent. Carn., p. 129, 1763, *Cimex.*
†*littoralis* (Fabricius), Ent. Syst., iv, p. 72, 1794, *Acanthia.*
Fabricius, Syst. Rhyn., p. 115, 1803, *Salda.*
Burmeister, Handb. d. Ent., ii, p. 216, 1835, *Salda.*
Costa, Cimic. Reg. Neap., Cent., ii, p. 8, 1843, *Salda.*
†*maculata* (Latreille), Hist. Nat. Crust. Ins., xii, p. 243, 1804, *Acanthia.*
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 508, 1816, *Acanthia.*
†*zosterae* (Amyot and Serville), Hémip., p. 405, 1843, *Salda.*
Localities: N. Y., Ill. (Palaearctic.)

Genus **Micracanthia** Reut.
Orthotype *marginalis* (Fall.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 8, 16, 1912.
§*Micranthia* Van Duzee, Check List Hemip., p. 51, 1916.

1342. **Micracanthia humilis** (Say)

Say, Heter. N. Harm., p. 35, 1832; Fitch reprint, p. 805; Compl. Writ., i, p.
Stål, Enum. Hemip., iii, p. 149, 1873, *Acanthia.* [360, *Acanthia* (spelled *humulis*).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 334, 1876; iii, p. 451, 1877, *Salda.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 382, 1893, *Salda.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 364, 1893, *Salda.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 212, *Salda.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Salda.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 236, 1908, *Acanthia.*
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910, *Acanthia.*

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 16, 1912, *Acanthia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914, *Acanthia.*
Localities: Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md., D. C., N. C., Ga., Fla., Ohio, Ill., Colo., Texas, Calif.

1343. **Micracanthia pusilla** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
Localities: Calif.

Genus **Ioscytus** Reut.
Orthotype *politus* (Uhl.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 9, 19, 1912.

1344. **Ioscytus politus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 441, 1877, *Salda.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 383, 1893, *Salda.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 20, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 32, 1914.
Localities: Ariz., Calif.

a. var. **flavicosta** Reut.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 21, 1912.
Locality: Utah.

Genus **Lampracanthia** Reut.
Orthotype *crassicornis* (Uhl.)

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, pp. 9, 21, 1912.

1345. **Lampracanthia crassicornis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 438, 1877, *Salda.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 21, 1912.
Localities: N. H., Sask. River.

Subfamily SALDOIDINAE Reut.

Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 23, 1912.

Genus **Saldoida** Osb.
Logotype *slossoni* Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.
Horvath, Ann. Mus. Natl. Hung., ix, p. 335, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 24, 1912.

1346. **Saldoida slossoni** Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.
Slosson, Ent. News, xix, p. 424, 1908.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 12, p. 24, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Locality: Fla.

1347. **Saldoida cornuta** Osb.

Osborn, Can. Ent., xxxiii, p. 181, 1901.
Slosson, Ent. News, xix, p. 424, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Locality: Fla.

Superfamily NOTONECTOIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815, Tribe *Notonectides* (part).
Leach, Trans. Linn. Soc. Lond., xii, p. 11, 1817, Tribe *Notonectides* (part).
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 15, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

PHALANX *NOTONECTAEFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 63, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 90, 1912.

Family NOTONECTIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815, *Notonectides*, Fam. I.
Billberg, Enum. Ins. Mus. Billb., p. 66, 1820, *Notonectides*.
Latreille, Fam. Nat. Règne Anim., p. 425, 1825, *Notonectides* (part).
Laporte, Essai Classif. Syst. Hémip., p. 19, 1832, *Notonectites* (part).
Burmeister, Handb. d. Ent., ii, p. 185, 1835, *Notonectici* (part).
Brullé, Hist. Nat. des Ins., ix, p. 247, 1835, *Notonectiens* (part). [(part).
Latreille *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 170, 1836, *Notonectides*
Blanchard, Hist. Nat. des Ins., Hémip., p. 87, 1840, *Notonectiens* (part).
Westwood, Intr. Mod. Classif. Ins., ii, p. 458, ii, Synop., p. 119, 1840, *Notonec-*
Amyot and Serville, Hémip., pp. lii, 449, 1843, *Notonectides*. [*tidae* (part).
Spinola, Tavola Sinot., pp. 27, 49, 1850, *Notonectae* (part).
Fieber, Genera Hydroc., pp. 9, 24, 1851, *Notonectidea*.
Dohrn, Cat. Hemip., p. 56, 1859, *Notonectidae*.
Flor, Rhyn. Livl., i, pp. 751, 766, 1860, *Notonectica*.
Douglas and Scott, Brit. Hemip., pp. 47, 585, 1865, *Notonectina*.
Stål, Of. Vet. Akad. Forh., xxvii, p. 707, 1870, *Notonectina*.
Walker, Cat. Heter., viii, p. 201, 1873, *Notonectidae*.
Uhler, Stand. Nat. Hist., ii, p. 251, 1884, *Notonectidae*.
Uhler, Check List, p. 28, 1886, *Notonectidae*.
Puton, Cat. Hemip. Palae., edn. 3, p. 65, 1886, *Notonectides*.
Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888, *Notonectides*.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 394, *Notonectidae*.
Kirkaldy, Bol. Mus. Zool. Anat. Comp. Univ. Torino, xiv, No. 350, p. 9, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 368, 1901, *Notonectidae*. [(Key.)
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 149, 1905.
Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.
Kirkaldy, Can. Ent., xl, p. 362, 1908.
Oshanin, Verz. Palae., Hemip., i, p. 971, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 63, 80, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 27, 1911.
Reuter, Of. Finska Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.

Subfamily NOTONECTINAE (Fieb.)

Fieber, Genera Hydroc., p. 24, 1851, Turma *Notonectae.*
Fieber, Rhynchotographien, p. 45, 1851, Gruppe *Notonectae.*
Fieber, Europ. Hemip., pp. 22, 31, 100, 1860, Fam. *Notonectidae.*
Stål, Hemip. Afr., iii, p. 190, 1865, Fam. *Notonectidae.*
Douglas and Scott, Brit. Hemip., p. 585, 1865, Fam. *Notonectidae.*
Berg, Hemip. Argent., p. 196, 1879, Fam. *Notonectidae.*
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 394.
Kirkaldy, Bol. Mus. Zool. Anat. Comp. Univ. Torino, xiv, No. 347, p. 9, 1899.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904. [(Key.)
Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 149, 1905.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 972, 1909, *Notonectina.*
Oshanin, Kat. Palae. Hemip., p. 91, 1912.

Genus **Notonecta** Linn.
Logotype *glauca* Linn.

Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758.
Geoffroy, Hist. Abreg. des Ins., i, p. 476, 1762.
Scopoli, Ent. Carn., p. 118, 1763.
Brunnich, Entomologia, p. 58, 1764.
Fabricius, Syst. Ent., p. 689, 1775.
Goeze, Ent. Beytr., ii, p. 164, 1778.
Fourcroy, Ent. Paris., p. 220, 1785.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2118, 1788.
Thunberg, Charac. Genera Ins., edn. 2, p. 33, 1791.
Fabricius, Ent. Syst., iv, p. 57, 1794.
Latreille, Précis, p. 87, 1797.
Lamarck, Syst. Nat. Anim. s. Vert., p. 296, 1801 (names *glauca* type).
Latreille, Hist. Nat. Crust. Ins., iii, p. 254, 1802.
Walckenaer, Fauna Paris., ii, p. 331, 1802.
Fabricius, Syst. Rhyn., p. 102, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 290, 1804.
Latreille, Genera Crust. Ins., iii, p. 150, 1807.
Latreille, Consid. Génl., pp. 261, 434, 1810 (cites *glauca* as type).
Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815.
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 517, 1816.
Leach, Trans. Linn. Soc. Lond., xii, pp. 11, 12, 1817.
Fallén, Hemip. Suec. Cimic., p. 177, 1829.
Latreille, Cuvier, Règne Animal, edn. 2, v, p. 209, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 20, 1832 (names *glauca* type).
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 713, 1832.
Herrich-Schaeffer, Nomen. Ent., i, pp. 39, 63, 1835.
Burmeister, Handb. d. Ent., ii, p. 190, 1835.
Brullé, Hist. Nat. des Ins., ix, pp. 252, 254, 1835.
Spinola, Essai sur les Hémip., p. 59, 1837 (1840).
Blanchard, Hist. des Ins., Hémip., p. 88, 1840.
Westwood, Intr. Mod. Classif. Ins., ii. Synop., 119, 1840 (names *glauca* type).
Amyot and Serville, Hémip., p. 450, 1843.
Fieber, Ent. Monog., p. 16, 1844.

Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Genera Hydroc., p. 25, 1851.
Fieber, Rhynchotographien, p. 48, 1851.
Flor, Rhyn. Livl., i, p. 766, 1850.
Fieber, Europ. Hemip., pp. 31, 100, 1860.
Stål, Hemip. Afr., iii, p. 190, 1865.
Douglas and Scott, Brit. Hemip., p. 585, 1865.
Puton, Synop. Heter. Fr., i, p. 216, 1879.
Uhler, Stand. Nat. Hist., ii, p. 252, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 395.
Kirkaldy, Bul. Mus. Zool. Anat. Comp. Univ. Genova, xiv, No. 350, p. 9, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 368, 1901.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 93, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 143, 149, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
Distant, Fauna Br. Ind., Rhyn., iii, p. 40, 1906 (cites *glauca* as type).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 198, 1908.

1348. **Notonecta lutea** Mull.

Müller, Zool. Dan. Prodr., p. 103, 1776.
Weber and Mohr, Naturh. Reise d. Schwed., p. 66, 1804.
Fallén, Hydroc. Nauc. Suec., p. 6, 1814.
Fallén, Hemip. Suec., Cimic., p. 178, 1829.
Fieber, Rhynchotographien, p. 49, 1851.
Flor, Rhyn. Livl., i, p. 774, 1860.
Fieber, Europ. Hemip., p. 100, 1860.
Sahlberg, Not. Sallsk. Fauna Fenn., Forh., xiv, p. 274, 1875.
Puton, Synop. Heter. Fr., i, p. 218, 1879.
Reuter, Rev. Synon., p. 374, No. 351, 1888.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 425.
Bueno, Ent. News, xv, p. 220, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 160, 1905.
unicolor Herrich-Schaeffer, Nomen. Ent., i, p. 63, 1835.
Herrich-Schaeffer, Wanz. Ins., viii, p. 23, 1848.

a. var. **scutellaris** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 425.
Localities: Manitoba, Brit. Col. (Palaearctic.)
[The variety not yet recorded from America.)

1349. **Notonecta irrorata** Uhl.

Packard, Guide to Study of Ins., p. 437, 1869 (without description).
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 443, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 200, 1888.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 418.
Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 235, 1902; xiii, pp. 46, 159, 1905.
Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Parshley, Psyche, xxi, p. 140, 1914.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., R. I., Md., D. C., Fla., Ohio, Ind., Ill., Mich., Ky.

1350. **Notonecta uhleri** Kirk.

Kirkaldy, Ann. Mag. Nat. Hist., ser. 6, xx, p. 58, 1897.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 415.
Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 235, 1902; xiii, pp. 46, 157, 1905.
Bueno and Brimley, Ent. News, xviii, p. 436, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: Mass., N. Y., N. J., D. C., Fla., La.

1351. **Notonecta variabilis** Fieb.

Fieber, Rhynchotographien, p. 53, 1851.
Berg, Hemip. Argent., p. 197, 1879.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 414.
Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 234, 1902.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 95, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 45, 155, 1905; xvi, p. 238, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Bueno and Brimley, Ent. News, xviii, p. 435, 1910.
Parshley, Psyche, xxi, p. 140, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Bueno, Psyche, xxii, p. 17, 1915.
†*americana* Ashmead *in* Smith's Cat. Ins. N. J., edn. 2, p. 144, 1899.
Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ohio, Ind., Mich., Ill., Wis., Neb., Kan.

1352. **Notonecta undulata** Say

Say, Heter. N. Harm., p. 39, 1832; Fitch reprint, p. 812; Compl. Writ., i, p. 368.
Fieber, Rhynchotographien, p. 55, 1851.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 453, 1877.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 442, 1878.
Uhler, Stand. Nat. Hist., ii, p. 252, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 201, 1888.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
Gillette and Baker, Hemip. Colo., p. 63, 1895.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 410.
Kirkaldy, Entomologist, xxxii, p. 29, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 370, pl. 22, fig. 10, 1901.
Bueno, Jl. N. Y. Ent. Soc., x, pp. 231, 233, 1902; xiii, pp. 45, 152, 1905.
Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xviii, p. 33, 1910.
Severin, Can. Ent., xlii, p. 340, 1910 (food habits).
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.

Parshley, Psyche, xxi, p. 140, 1914.
†*americana* Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2188, 1789.
Herrich–Schaeffer, Wanz. Ins., ix, p. 44, fig. 902, 1853.
unicolor Fieber, Rhynchotographien, p. 53, 1851 (as variety).
scutellaris Fieber, Rhynchotographien, p. 53, 1851 (as variety).
†*variabilis* Guerin *in* Sagra, Hist. Isl. de Cuba, Ins., p. 176, 1857.
†*pallipes* Lethierry, Ann. Soc. Ent. Belg., xxv, p. 13, 1881.
albida Kirkaldy, 1900. (Cannot locate this reference.)

a. var. **punctata** Fieb.
Fieber, Rhynchotographien, p. 52, 1851.
Uhler, Check List, p. 28, 1886.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

b. var. **virescens** Blanch.
Blanchard *in* Gay's Hist. de Chili, Zool., vii, p. 233, 1852.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

c. var. **maculata** Fieb.
Fieber, Rhynchotographien, p. 53, 1851.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 410.

d. var. **charon** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 411.

e. var. **latona** Kirk.
Kirkaldy. (Cannot locate this.)

f. var. **selene** Kirk.
Kirkaldy, 1900. (Cannot locate this.)
Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Md., D. C., Va., N. C., Fla., La., Ohio, Ind., Mich., Ill., Minn., Ia., Neb., Kan., Mo., Tenn., Ky., Colo., Utah, Mont., Texas, N. Mex., Ariz., Calif., Ore., Idaho, Brit. Col., Vanc. Isd., Manitoba.

1353. **Notonecta howardii**, Bueno

Bueno, Jl .N. Y. Ent. Soc., xiii, p. 151, 1905.
Locality: Ariz.

1354. **Notonecta raleighi** Bueno

Bueno, Can. Ent., xxxix, p. 225, 1907.
Bueno and Brimley, Ent. News, xviii, p. 436, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Localities: N. J., Md., D. C., N. C., Ill.

1355. **Notonecta indica** Linn.

Linnaeus, Mantissa Plantarum, ii, p. 534, 1771.
Turton *in* Linnaeus Syst. Nat., edn. 13, Eng. transl., ii, p. 605, 1806.
Kirkaldy, Entomologist, xxxiv, p. 10, 1900.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 150, 1905.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 181, 1906.
americana Fabricius, Syst. Ent., p. 690, 1775.
Olivier, Encyc. Meth., viii, p. 389, 1801.
Uhler, Check List, p. 28, 1886.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 408.
Kirkaldy, Revue d'Ent., xviii, p. 94, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 370, pl. 22, fig. 11, 1901.
unifasciata Guerin, Le Moniteur for 1857, p. ?.
Guerin, Bul. Soc. Zool. Acclim., iv, p. 581, 1858.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 426 (listed only).
dorsalis Fieber, Rhynchotographien, p. 53, 1851 (as variety).
Localities: Texas, Ariz., Nev., Calif., Ore., Utah. (Neotropical.)

1356. **Notonecta shooterii** Uhl.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 406.
Champion, Biol. Centr. Am., Heter., ii, p. 370, 1901.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 161, 1905.

a. var. **melaena** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 406.
Localities: Calif. (Mexico, Centr. Am.)

1357. **Notonecta insulata** Kirby

Kirby *in* Richardson's Fauna Bor. Am., iv, p. 285, 1837.
Kirby *in* Bethune reprint, p. 140; *same*, Can. Ent., x, p. 216, 1878.
Fieber, Rhynchotographien, p. 55, 1851.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 339, 1876; iii, p. 453, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 442, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
Gillette and Baker, Hemip. Colo., p. 63, 1895.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 403.
Bueno, Jl. N. Y. Ent. Soc., x, p. 231, 1902.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, pp. 46, 162, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
Parshley, Psyche, xxi, p. 140, 1914.
rugosa Fieber, Rhynchotographien, p. 52, 1851.
bicolor Fieber, Rhynchotographien, p. 52, 1851 (as var. of *rugosa*).
plagiata Fieber, Rhynchotographien, p. 52, 1851 (as var. of *rugosa*).
cordigera Fieber, Rhynchotographien, p. 52, 1851 (as var. of *rugosa*).
basalis Fieber, Rhynchotographien, p. 52, 1851 (as var. of *rugosa*).

a. var. **impressa** Fieb.
Fieber, Rhynchotographien, p. 51, 1851.

b. var. **geala** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 404.

c. var. **odara** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 404.
Localities: Quebec, Ont., Me., Mass., Conn., N. Y., N. J., Ind., Dak., Neb., Colo., Mont., Idaho, Utah, Nev., N. Mex., Ariz., Calif., Ore., Vanc. Isd.

1358. **Notonecta montezuma** Kirk.

Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.
Champion, Biol. Centr. Am., Heter., ii, p. 369, pl. 22, figs. 8, 9, 1901.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 94, 1904.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 162, 1905.
Localities: Calif. (Mexico.)

1359. **Notonecta mexicana** Am. & Serv.

Amyot and Serville, Hémip., p. 453, pl. 8, fig. 7, 1843.
Fieber, Rhynchotographien, p. 51, 1851.
Herrich-Schaeffer, Wanz. Ins., ix, p. 43, fig. 903, 1853.
Uhler, Stand. Nat. Hist., ii, p. 252, 1884.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.
Gillette and Baker, Hemip. Colo., p. 63, 1895.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 401.
Champion, Biol. Centr. Am., Heter., ii, p. 368, pl. 23, figs. 6, 7, 1901.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 158, 1905.
Snow, Trans. Kan. Acad. Sci., xx, pt. 2, p. 160, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
klugii Fieber, Rhynchotographien, p. 50, 1851.

a. var. **ceres** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.

b. var. **hades** Kirk.
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 402.
Localities: Colo., Ariz., Calif. (Mexico.)

Genus **Buenoa** Kirk.
Orthotype *antigone* Kirk.

Kirkaldy, Wien. Ent. Zeit., xxiii, p. 120, 1904.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906 (listed only).
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 200, 1908.
Bueno, Jl. N. Y. Ent. Soc., xvii, p. 74, 1909.

1360. **Buenoa albida** (Champ.)
Champion, Biol. Centr. Am., Heter., ii, p. 373, pl. 22, fig. 14, 1901, *Anisops*.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 121, 1904.
Localities: Texas. (Mexico.)

1361. **Buenoa carinata** (Champ.)
Champion, Biol. Centr. Am., Heter., ii, p. 372, pl. 22, fig. 12, 1901, *Anisops*.
Uhler, Proc. U. S. Natl. Mus., xxvii, p. 364, 1904.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 200, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: Fla., N. Mex., Calif. (Neotropical.)

1362. **Buenoa margaritacea** Bueno
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908 (n.n. for †*platycnemis* Bueno).
Bueno, Jl. N. Y. Ent. Soc., xvii, p. 76, 1909; xviii, p. 33, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
†*platycnemis* (Uhler), Stand. Nat. Hist., ii, p. 253, 1884, *Anisops*.
Bueno, Jl. N. Y. Ent. Soc., x, p. 236, 1902 (description).
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 123, 1904.

†*pallipes* (Kirkaldy), Entomologist, xxxii, p. 30, 1899, *Anisops.*
Anisops sp., Bueno, Jl. N. Y. Ent. Soc., xiii, p. 46, 1905.
†*albida?* Bueno and Brimley, Ent. News, xviii, p. 436, 1907.
Localities: N. Y., N. J., Ill., Fla.

1363. **Buenoa platycnemis** (Fieb.)

Fieber, Rhynchotographien, p. 61, 1851, *Anisops.*
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 153, 1906.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xvii, p. 77, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.
?Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
Localities: N. Y., N. J., D. C., Ill., Texas, Calif.

1364. **Buenoa elegans** (Fieb.)

Fieber, Rhynchotographien, p. 61, 1851, *Anisops.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 238, 1908; xvii, p. 77, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.
Bueno, Can. Ent., xliv, p. 213, 1912.
Parshley, Psyche, xxi, p. 140, 1914.
Localities: Me., N. Y., N. J.

Subfamily PLEINAE (Fieb.)

Fieber, Genera Hydroc., p. 27, 1851, Turma *Pleae.*
Fieber, Rhynchotographien, p. 45, 1851, Gruppe *Pleae* (mere mention).
Fieber, Europ. Hemip., pp. 23, 31, 1860, Fam. *Pleae.*
Stål, Hemip. Afr., iii, p. 192, 1865, Fam. *Pleida.*
Douglas and Scott, Brit. Hemip., p. 48, 1865, Fam. *Pleidae.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 194, 1868, *Ploae.*
Berg, Hemip. Argent., p. 199, 1879, Fam. *Pleidae.*
Kirkaldy, Trans. Ent. Soc. Lond. for 1897, p. 395, *Pleinae.*
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 126, 1904.
Distant, Fauna Br. Ind., Rhyn., iii, p. 46, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 201, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 971, 1909.
Oshanin, Kat. Palae. Hemip., p. 90, 1912.

Genus **Plea** Leach
Haplotype *minutissima* (Fussl.)

Leach, Trans. Linn. Soc. Lond., xii, pp. 11, 13, 1817.
Latreille, Fam. Nat. Règne Anim., p. 425, 1825.
Fallén, Hemip. Suec., Cimic., p. 173, 1829.
Stephens, Nomen. Brit. Ins., p. 66, 1829 (amended to *Ploa*).
Laporte, Essai Classif. Syst. Hémip., p. 21, 1832 (names *minutissima* type).
Burmeister, Handb. d. Ent., ii, p. 189, 1835, *Ploa.*
Brullé, Hist. Nat. des Ins., ix, p. 255, 1835, *Ploa.*
Spinola, Essai sur les Hémip., p. 59, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 89, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *minutissima*
Amyot and Serville, Hémip., p. 449, 1843, *Ploa.* [as type).
Fieber, Ent. Monog., p. 16, 1844, *Ploa.*
Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Genera Hydroc., p. 27, 1851.

Herrich-Schaeffer, Wanz. Ins., ix, p. 45, 1853, *Ploa.*
Fieber, Europ. Hemip., pp. 31, 101, 1860.
Stål, Hemip. Afr., iii, p. 192, 1865.
Douglas and Scott, Brit. Hemip., p. 590, 1865, *Ploea.*
Walker, Cat. Heter., viii, p. 201, 1873.
Puton, Synop. Heter. Fr., i, p. 215, 1880.
Champion, Biol. Centr. Am., Heter., ii, p. 375, 1901.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 126, 1904.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 47, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 201, 1908 (catalogue).

1365. **Ploa striola** Fieb.

Fieber, Ent. Monog., p. 18, 1844.
Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1893, p. 706; for 1894, p. 224.
Champion, Biol. Centr. Am., Heter., ii, p. 375, pl. 22, fig. 17, 1901.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 47, 1902.
Kirkaldy, Wien. Ent. Zeit., xxiii, p. 127, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 170, 1910.
Bueno, Can. Ent., xliv, p. 213, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914.
Localities: Mass., N. Y., N. J., Fla., Ill., Ia., Kan., Texas, Calif. (Neotropical.)

PHALANX *NEPAEFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Family **NAUCORIDAE** (Fall.)

Fallén, Spec. Nov. Disp. Meth., pp. 3, 15, 1814, *Naucoridea.*
Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815; Am. edn., viii, p. 712, 1832, [*Naucorida.*
Amyot and Serville, Hémip., p. 426, 1843, Groupe *Naucorides.*
Fieber, Genera Hydroc., p. 16, 1851, *Naucoridae.*
Dohrn, Cat. Hemip., p. 54, 1859, *Naucoridae.*
Flor, Rhyn. Livl., i, pp. 751, 752, 1860, *Naucoridea.*
Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861, *Naucorida.*
Stål, Hemip. Afr., iii, p. 174, 1865, *Naucorida.*
Douglas and Scott, Brit. Hemip., p. 579, 1865, *Naucoridae.*
Mayr, Reise Freg. Novara, Zool. ii, Hemip., p. 182, 1868, *Naucorida.*
Stål, Enum. Hemip., v, p. 141, 1876.
Berg, Hemip. Argent., p. 186, 1879.
Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
Puton, Cat. Hémip. Palae., edn. 3, p. 64, 1886, *Naucorides.*
Champion, Biol. Centr. Am., Heter., ii, p. 354, 1901.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 25, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 182, 1908.
Kirkaldy, Can. Ent., xl, p. 361, 1908.

Oshanin, Verz. Palae. Hemip., i, p. 957, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 2, pp. 63, 79, 1910.
Banks, Cat. Nearc. Hemip., p. 10, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Subfamily **NAUCORINAE** (Stål)

Stål, Enum. Hemip., v, p. 142, 1876, Div. *Naucoraria.*
Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 25, 33, 1906.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 55, 1909.
Oshanin, Verz. Palae. Hemip., i, p. 959, 1909.
Oshanin, Kat. Palae. Hemip., p. 89, 1912, Tribe *Naucoraria.*

Genus **Pelocoris** Stål

Logotype *femoratus* P. B.

Stål, Enum. Hemip., v, pp. 142, 144, 1876.
Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 184, 1908.

1366. **Pelocoris femoratus** (P. B.)

Palisot–Beauvois, Ins. Rec. Afr. Am., p. 237, pl. Hemip. 20, fig. 4, 1805, [*Naucoris.*
Stål, Enum. Hemip., v, p. 144, 1876.
Uhler, Stand. Nat. Hist., ii, p. 259, 1884.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.
Champion, Biol. Centr. Am., Heter., ii, p. 360, 1900.
Bueno, Jl. N. Y. Ent. Soc., xi, p. 166, 1903; xiii, p. 43, 1905.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908; xviii, p. 33, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 167, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 499, 1914. [*coris.*
poeyi (Guerin), Icon. Règne Anim., Ins., p. 352, pl. 57, fig. 5, 1844, *Nau-*
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 418, 1857, *Naucoris.*
Stål, Enum. Hemip., v, p. 144, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.
Localities: Mass., N. Y., N. J., Pa., Md., "Carolina," Fla., Ill., Wis., Minn., Mich., Tenn., La.

1367. **Pelocoris biimpressus** Montd.

Montandon, Bul. Soc. Sci. Bucarest, vii, p. 285, 1898 (as variety).
Champion, Biol. Centr. Am., Heter., ii, p. 361, 1901 (as variety).
Locality: "N. Am." (Stål).

1368. **Pelocoris carolinensis** Bueno

Bueno, Can. Ent., xxxix, p. 227, 1907.
Bueno and Brimley, Ent. News, xviii, p. 434, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

Bueno, Psyche, xxii, p. 16, 1915.
†*poeyi* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 439, 1878, *Naucoris.*
Localities: N. C., S. C.

Subfamily CRYPTOCRICINAE Montd.

Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, p. 6, 1897, *Cryptocricinae*
Montandon, Bul. Mus. Paris for 1897, p. 124. [(synopsis).
Champion, Biol. Centr. Am., Heter., ii, p. 354, 1900.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 48, 1909.

Genus **Ambrysus** Stål
Logotype *signoreti* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862.
Stål, Hemip. Afr., iii, p. 174, 1865.
Stål, Enum. Hemip., v, pp. 141, 143, 1876.
Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 6, 11, 1897 (synopsis).
Montandon, Bul. Mus. Paris. for 1897, pp. 129, 130.
Champion, Biol. Centr. Am., Heter., ii, p. 355, 1900.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 185, 1908.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 316, 1909 (synopsis).

1369. **Ambrysus pulchellus** Montd.

Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, pp. 11, 16, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 356, pl. 21, fig. 4, 1900.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 319, 1909.
a. var. **pallidulus** Montd.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 189, 1910.
Localities: Texas. (Guatemala.)

1370. **Ambrysus pudicus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.
Stål, Enum. Hemip., v, p. 143, 1876.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
Montandon, Verh. Zool. Bot. Ges. Wien, xlvii, pp. 12, 17, 1897.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.
Localities: Wyo., Calif. (Mexico.)

1371. **Ambrysus circumcinctus** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xix, No. 3, p. 5, 1910.
Locality: Texas.

1372. **Ambrysus californicus** Montd.

Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 12, 18, 1897.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.
Locality: Calif.

1373. **Ambrysus melanopterus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.
Stål, Enum. Hemip., v, p. 143, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.
Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 12, 19, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 357, pl. 21, fig. 7, 1900.

Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 186, 1908.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 320, 1909.
Localities: Texas, Ariz. (Mexico.)

1374. **Ambrysus mormon** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, No. 1, p. 48, 1909; p. 188, 1910.
Localities: Utah, N. Mex.

1375. **Ambrysus heidemanni** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 188, 1910.
Locality: Wyo.

1376. **Ambrysus puncticollis** Stål

Stål, Enum. Hemip., v, p. 143, 1876.
Montandon, Verh. Zool.-Bot. Ges. Wien, xlviii, pp. 13, 20, 1897.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 322, 1909.
Localities: Texas, Ariz.

1377. **Ambrysus guttatipennis** Stål

Stål, Enum. Hemip., v, p. 143, 1876.
Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 13, 22, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 357, pl. 21, fig. 10, 1900.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 322, 1909.
Localities: Ariz. (Mexico.)

1378. **Ambrysus signoreti** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 460, 1862.
Uhler, Hayden's Surv. Terr., Rept. for 1871, p. 423, 1872.
Stål, Enum. Hemip., v, p. 143, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331.
Uhler, Stand. Nat. Hist., ii, p. 260, fig. 319, 1884.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
Gillette and Baker, Hemip. Colo., p. 63, 1895.
Montandon, Verh. Zool.-Bot. Ges. Wien, xlvii, pp. 13, 23, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 358, pl. 21, fig. 11, 1900.
Snow, Trans. Kan. Acad. Sci., xx, pt. 1, p. 180, 1906.
Montandon, Bul. Soc. Sci. Bucarest, xvii, p. 323, 1909.
Localities: Colo., N. Mex., Ariz., Calif. (Mexico.)

Family **NEPIDAE** (Latr.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802, *Nepariae.*
Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815, *Nepida.*
Billberg, Enum. Ins. Mus. Billb., p. 66, 1820, *Nepaedes.*
Fallén, Hemip. Suec., Cimic., p. 168, 1829, Fam. *Nepidae.*
Amyot and Serville, Hémip., pp. li, 437, 1843, Groupe *Nepides.*
Fieber, Genera Hydroc., p. 22, 1851, Turma *Nepeae.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 19, 1853, *Nepides.*
Dohrn, Cat. Hemip., p. 55, 1859, *Nepidae.*

Flor, Rhyn. Livl., i, pp. 751, 755, 1860, *Nepina.*
Fieber, Europ. Hemip., pp. 23, 31, 101, 1860, *Nepae.*
Stål, Of. Vet. Akad. Forh., xviii, p. 202, 1861, *Nepida.*
Stål, Hemip. Afr., iii, p. 185, 1865, *Nepida.*
Douglas and Scott, Brit. Hemip., pp. 45, 581, 1865, *Nepina.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 188, 1868, *Nepida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Nepina.*
Walker, Cat. Heter., viii, pp. 170, 185, 1873.
Berg, Hemip. Argent., p. 194, 1879.
Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 352, 1901.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 17, 1906.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 153, 1906.
Kirkaldy, Can. Ent., xl, p. 360, 1908.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
Oshanin, Verz. Palae. Hemip., i, p. 966, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 62, 79, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912.
Oshanin, Kat. Palae. Hemip., p. 90, 1912.

Hydrocorides Fallén, Spec. Nova Hemip., Disp. Meth., pp. 3, 14, 1814.

Genus **Nepa** Linn.
Logotype *cinerea* Linn.

Linnaeus, Syst. Nat., edn. 10, i, p. 440, 1758.
Scopoli, Ent. Carn., p. 119, 1763 (*cinerea* only species).
Brunnich, Entomologia, p. 58, 1764.
Fabricius, Syst. Ent., p. 691, 1775.
Goeze, Ent. Beytr., ii, p. 171, 1778.
Retzius, Genera et Spec. Ins., p. 90, 1783.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2120, 1788.
Thunberg, Charac. Genera Ins., edn. 2, p. 33, 1791.
Fabricius, Ent. Syst., iv, p. 61, 1794.
Latreille, Précis, p. 87, 1797.
Lamarck, Syst. Anim. s. Vert., p. 295, 1801 (lists *linearis* and *cinerea*).
Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802 (*cinerea* only species).
Walckenaer, Fauna Paris., ii, p. 334, 1802 (for *cinerea* only).
Fabricius, Syst. Rhyn., p. 106, 1803 (no type indicated).
Latreille, Genera Crust. Ins., iii, p. 147, 1807 (mentions *cinerea* only).
Latreille, Consid. Génl., pp. 261, 434, 1810 (names *cinerea* type, valid).
Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815.
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 516, 1816.
Latreille, Fam. Nat. Règne Anim., p. 425, 1825.
Fallén, Hemip. Suec., Cimic., pp. 168, 170, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 18, 1832 (names *cinerea* type).
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835.
Burmeister, Handb. d. Ent., ii, p. 195, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 263, 1835.
Spinola, Essai sur les Hémip., p. 52, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 90, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *cinerea*
Amyot and Serville, Hémip., p. 437, 1843. [type).

Herrich-Schaeffer, Wanz. Ins., viii, p. 19, 1848.
Spinola, Tavola Sinot., p. 48, 1850.
Fieber, Genera Hydroc., p. 23, 1851.
Flor, Rhyn. Livl., i, p. 756, 1860.
Fieber, Europ. Hemip., pp. 31, 101, 1860.
Stål, Of. Vet. Akad. Forh., xviii, p. 202, 1861.
Stål, Hemip. Afr., iii, p. 185, 1865.
Douglas and Scott, Brit. Hemip., p. 583, 1865.
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 107, 1903.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
‡*Hepa* Geoffroy, Hist. Abreg. des Ins., i, p. 479, 1762.
Fourcroy, Ent. Paris., p. 221, 1785.

1379. **Nepa apiculata** Uhl.

Uhler *in* Harris, Treat. Ins. Inj. Veg., edn. 3, p. 12, pl. 1, fig. 1, 1862.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878.
Uhler, Stand. Nat. Hist., ii, p. 253, 1884.
Montandon, Bul. Soc. Sci. Bucarest, viii, p. 511, 1898; xii, p. 101, 1903.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
Bueno, Jl. N. Y. Ent. Soc., xviii, p. 180, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 157, 1910.
Severin, Jl. N. Y. Ent. Soc., xix, p. 99, 1911.
Severin, Behavior Monographs, i, No. 3, 1911 (death feigning).
†*cinerea* Ferrari, Ann. k. k. Nat. Hofm. Wien, iii, p. 191, 1888 (part).
Localities: Quebec, Ont., Mass., R. I., N. Y., N. J., Pa., Md., D. C., Ga., Ohio, Mich., Ill. (Mexico.)

Genus **Curicta** Stål
Haplotype *scorpio* Stål

Stål, Of. Vet. Akad. Forh., xviii, pp. 202, 203, 1861.
Stål, Hemip. Afr., iii, p. 185, 1865.
Champion, Biol. Centr. Am., Heter., ii, p. 352, 1901.
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 97, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 154, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 202, 1908.
Helotenthes Berg, Hemip. Argent., p. 194, 1879 (type *bonaërensis* Berg).
Nepoidea Montandou, Ann. Soc. Ent. Belg., xxxix, p. 476, 1895 (type [*volxemi* Montd.).

1380. **Curicta howardi** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 181, 1910.
Locality: Texas.

Genus **Ranatra** Fabr.
Logotype *linearis* (Linn.)

Fabricius, Nova Ins., Genera *in* Skrift. Nat. Selskabet, i, p. 227, 1790.
Fabricius, Ent. Syst., iv, p. 64, 1794.
Latreille, Précis, p. 87, 1797.
Latreille, Hist. Nat. Crust. Ins., iii, p. 252, 1802 (names *linearis* as example).
Walckenaer, Fauna Paris., ii, p. 335, 1802 (*linearis* only species).
Fabricius, Syst. Rhyn., p. 108, 1803.
Latreille, Hist. Nat. Crust. Ins., xii, p. 280, 1804 (gives *linearis* as example).
Latreille, Genera Crust. Ins., iii, p. 148, 1907 (*linearis* only species).

Latreille, Consid. Génl., pp. 261, 434, 1810 (names *linearis* type, valid).
Leach, Edinbg. Encyc., ix, p. 124, 1815 (for *linearis*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 515, 1816.
Fallén, Hemip. Suec., Cimic., p. 169, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 17, 1832 (cites *linearis* as type).
Leach *in* Brewster's Edinbg. Encyc., Am. edn., viii, p. 713, 1832 (for *linearis*).
Herrich-Schaeffer, Nomen. Ent., i, pp. 38, 63, 1835.
Burmeister, Handb. d. Ent., ii, p. 199, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 260, 1835.
Spinola, Essai sur les Hémip., p. 52, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hémip., p. 90, 1840. [as type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (cites *linearis*
Amyot and Serville, Hémip., p. 441, 1843.
Spinola, Tavola Sinot., p. 48, 1850.
Fieber, Genera Hydroc., p. 23, 1851.
Herrich-Schaeffer, Wanz. Ins., ix, p. 30, 1853.
Flor, Rhyn. Livl., i, p. 763, 1860.
Fieber, Europ. Hemip., pp. 32, 102, 1860.
Stål, Of. Vet. Akad. Forh., xviii, p. 203, 1861.
Stål, Hemip. Afr., iii, pp. 186, 189, 1865.
Douglas and Scott, Brit. Hemip., p. 581, 1865.
Uhler, Stand. Nat. Hist., ii, p. 254, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 198, 1888.
Champion, Biol. Centr. Am., Heter., ii, p. 353, 1901.
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 107, 1903.
Distant, Fauna Br. Ind., Rhyn,. iii, p. 19, 1904 (names *filiformis* pseudotype).
Holmes, Biol. Bul., xii, p. 158, 1907 (habits).
Oshanin, Kat. Palae. Hemip., p. 90, 1912 (cites *linearis* as type).

1381. **Ranatra fusca** P. B.

Palisot-Beauvois, Ins. Rec. Afr. Am., p. 235, 1805.
?Uhler, Stand. Nat. Hist., ii, p. 254, 1884.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894.
Kirkaldy, Can. Ent., xxxv, p. 235, 1903 (stridulation).
Montandon, Ann. Soc. Ent. Fr., xxxvi, p. 63, 1907.
Montandon, Bul. Soc. Sci. Bucarest, xix, p. 63, 1910.
kirkaldyi Bueno, Can. Ent., xxxvii, p. 187, 1905.
Bueno and Brimley, Ent. News, xviii, p. 439, 1907.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 183, 1910.
Severin, Jl. N. Y. Ent. Soc., xix, p. 100, 1911.
Localities: Ont. N. Y., N. J., N. C., Fla., Ill., Mich.

1382. **Ranatra nigra** H. S.

Herrich-Schaeffer, Wanz. Ins., ix, p. 32, 1853.
Montandon, Bul. Soc. Sci. Bucarest, xix, p. 64, 1910.
?fusca Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.
†*fusca* Kirkaldy, Can. Ent., xxxvii, p. 188, 1905.
Bueno and Brimley, Ent. News, xviii, p. 438, 1907.
?Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Localities: N. C., Fla., La.

1383. **Ranatra americana** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xix, p. 65, 1910.

Bueno, Can. Ent., xliv, p. 213, 1912.
Bueno, Psyche, xxii, p. 16, 1915.
†*quadrinotata* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878.
Uhler, Stand. Nat. Hist., ii, p. 255, 1884.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894.
Gillette and Baker, Hemip. Colo., p. 63, 1895.
Champion, Biol. Centr. Am., Heter., ii, p. 354, 1901.
Bueno, Can. Ent., xxxvii, pp. 85 (stridulation), 188, 1905.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 153, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906.
Bueno, Can. Ent., xxxviii, p. 242, 1906 (life history).
Severin, Jl. N. Y. Ent. Soc., xix, p. 100, 1911.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 235, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.

a. var. **edentula** Montd.
Montandon, Bul. Soc. Sci. Bucarest, xix, p. 66, 1910.
†*fusca* Provancher, Pet. Faune Ent. Can., iii, p. 199, 1888.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Fla., Ill., Colo., Texas.

1384. **Ranatra brevicollis** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 184, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
Locality: Calif.

1385. **Ranatra protensa** Montd.

Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 185, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Bueno, Psyche, xxii, p. 16, 1915.
†*fusca* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878.
Localities: N. Y., Fla.

1386. **Ranatra annulipes** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 241, 1854.
Montandon, Ann. Soc. Ent. Fr., lxxvi, p. 58, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 203, 1908.
fabricii Guerin *in* Sagra, Hist. de Cuba, vii, Ins., p. 176, 1857.
Barber, Brookl. Inst. Sci. Bul., i, p. 288, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 203, 1908.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 184, 1910.
Localities: Texas. (Neotropical.)

[**Ranatra grisea** Bueno MS]

Bueno *in* Smith's Cat. Ins. N. J., edn. 3, p. 158, 1910.
Locality: N. J.

Family **BELOSTOMIDAE** (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 123, 1815, *Belostomida.*
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 712, 1832, *Belostomida.*
Spinola, Tavola Sinot., p. 48, 1850, Subfam. *Belostomoideae.*
Fieber, Genera Hydroc., p. 18, 1851, Turma *Belostomae.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 20, 1853, *Belostomides.*
Dohrn, Cat. Hemip., p. 54, 1859, *Belostomidae.*
Stål, Of. Vet. Akad. Forh., xviii, p. 204, 1861, *Belostomida.*
Stål, Hemip. Afr., iii, p. 178, 1865, *Belostomida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 183, 1868, *Belostomida.*
Stål, Of. Vet. Akad. Forh., xvii, p. 706, 1870, *Belostomina.*
Berg, Hemip. Argent., p. 189, 1879.
Uhler, Stand. Nat. Hist., ii, p. 255, 1884.
Uhler, Check List, p. 28, 1886, *Belostomatidae.*
Champion, Biol. Centr. Am., Heter., ii, p. 361, 1901, *Belostomidae.*
Distant, Fauna Br. Ind., Rhyn., iii, p. 34, 1906, *Belostomatidae.*
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906, *Belostomatidae.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 187, 1908, *Belostomatidae*
Kirkaldy, Can. Ent., xl, p. 361, 1908, *Belostomidae.* [(catalogue).
Oshanin, Verz. Palae. Hemip., i, p. 962, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 62, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 26, 1911. [*Belostomatidae.*
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 51, 1912,
Oshanin, Kat. Palae. Hemip., p. 90, 1912, *Belostomatidae.*

Genus **Benacus** Stål

Orthotype *haldemanum* Leid. = *griseus* (Say)

Stål, Of. Vet. Akad. Forh., xix, p. 205, 1861.
Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 342, 358, 1863.
Stål, Hemip. Afr., iii, p. 179, 1865.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 402, 428, 1871.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
Bueno, Can Ent., xxxix, p. 336, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 187, 1908 (catalogue).

1387. **Benacus griseus** (Say)

Say, Heter, N. Harm., p. 37, 1832; Fitch reprint, p. 809; Compl. Writ., i, p.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 400, 1863, *Belostoma.* [365, *Belostoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 237, 1876.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878.
Uhler, Stand. Nat. Hist., ii, p. 256, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 197, 1888, *Belostoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894.
Howard, Insect Book, p. 29, fig. 36, 1905.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
Bueno and Brimley, Ent. News, xviii, p. 434, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914. [*Belostoma.*
haldemanus (Leidy), Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 66, 1847,
Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861 (description).
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 363, 1863, *Belostoma* (descrip-
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 428, 1871. [tion).
impressus (Haldemann), Proc. Acad. Nat. Sci. Phila., vi, p. 364, 1853,
[*Belostoma.*
harpax (Stål), Of. Vet. Akad. Forh., xi, p. 240, 1854, *Belostoma.*
angustatus (Guerin), Sagra, Hist. de Cuba, vii, p. 176, 1856, *Belostoma.*
?ruficeps (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma.*
?distinctum (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma.*
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Ga., Fla., Ohio, Ill., Mich., Ky., Tenn., Minn., Ia., Mo., La., Texas. (West Indies.)

Genus **Lethocerus** Mayr
Type *cordofanus* Mayr

Mayr, Verh. Zool.-Bot. Ges. Wien, ii, p. 15, 1852 (founded on larva).
Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 363, 1863.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 188, 1908.
Kirkaldy, Can. Ent., xl, p. 164, 1908.
†*Belostoma* Latreille, Consid. Génl., pp. 260, 434, 1810 (names *grandis*
Fallén, Hemip. Suec., Cimic., p. 171, 1829. [pseudotype).
Laporte, Essai Classif. Syst. Hémip., p. 17, 1832 (names *grandis* pseudo-
Burmeister, Handb. d. Ent., ii, p. 195, 1835, *Belostomum.* [type).
Brullé, Hist. Nat. des Ins., ix, p. 266, 1835 (part).
Spinola, Essai sur les Hémip., p. 52, 1837 (for *grandis*).
Blanchard, Hist. Nat. des Ins., Hémip., p. 91, 1840 (part).
Amyot and Serville, Hémip., p. 427, 1843.
Spinola, Tavola Sinot., p. 48, 1850 (names *grandis* pseudotype).
Fieber, Genera Hydroc., p. 21, 1851.
Herrich–Schaeffer, Wanz. Ins., ix, p. 33, 1853.
Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 379, 1863.
Mayr, Verh. Zool. Bot. Ges. Wien, xiii, p. 357, 1863.
Stål, Hemip. Afr., iii, pp. 179, 182, 1865.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 183, 1866.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 522, 1871.
Walker, Cat. Heter., viii, pp. 173, 174, 1873.
Berg, Hemip. Argent., p. 193, 1879.
Champion, Biol. Centr. Am., Heter., ii, p. 367, 1901.
Distant, Fauna Br. Ind., Rhyn., iii, p. 37, 1906 (names *indicum* pseudo-
Banks, Cat. Neark. Hemip., p. 9, 1910. [type).
Amorgius Stål, Hemip. Afr., iii, p. 179, 1865 (nomen nudum, no species).
Stål, Berl. Ent. Zeit., x, p. 168, 1867 (names *colossicum* type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
Bueno, Can. Ent., xxxix, p. 336, 1907. [Leidy).
Montandonista Kirkaldy, Entomologist, xxxiv, p. 6, 1901 (type *americanum*

1388. **Lethocerus americanus** (Leidy)

Leidy, Jl. Acad. Nat. Sci. Phila., vi, pp. 58, 66, 1847, *Belostoma* (as var. of
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876. [*grandis*).

Uhler, Stand. Nat. Hist., ii, p. 256, 1884, *Belostoma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Belostoma.*
Gillette and Baker, Hemip. Colo., p. 63, 1895, *Belostoma.*
Montandon, Ann. Soc. Ent. Belg., xl, p. 510, 1896, *Belostoma.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905, *Amorgius.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Parshley, Psyche, xxi, p. 140, 1914.

litigiosum (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 383, 1863, *Belostoma.*
†*griseum* (Stål), Of. Vet. Akad. Forh., xviii, p. 206, 1861, *Belostoma.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 427, 1871, *Belostoma.*
†*grande* Dimmock, Mass. Fish and Game Comm., Rept. for 1886, p. 69.

Localities: Quebec, Me., Mass., Conn., N. Y., N. J., Pa., Va., Ohio, Tenn., Ill., Mich., Minn., Colo., Texas, ?Calif.

1389. **Lethocerus obscurus** (Duf.)

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 383, 1863, *Belostoma.*
Montandon, Ann. Soc. Ent. Belg., xl, p. 512, 1896, *Belostoma.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905 (*Amorgius*), xvi, p. 237, 1908.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Bueno, Psyche, xxii, p. 17, 1915.

†*americanum* Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878, *Belostoma.*

Localities: Mass., Conn., N. Y., N. J., Utah.

1390. **Lethocerus angustipes** (Mayr)

Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 427, 1871, *Belostoma.*
Montandon, Ann. Soc. Ent. Belg., xl, p. 511, 1896, *Belostoma.*
Champion, Biol. Centr. Am., Heter., ii, p. 368, pl. 22, fig. 3, 1901, *Belostoma.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 188, 1908.

Localities: Calif. (Mexico.)

1391. **Lethocerus uhleri** (Montd.)

Montandon, Ann. Soc. Ent. Belg., xl, p. 513, 1896, *Belostoma.*
Howard, Insect Book, pl. 29, fig. 25, 1905, *Belostoma.*
Bueno and Brimley, Ent. News, xviii, p. 434, 1907, *Montandonista.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909, *Amorgius.*
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914. [*Belostoma.*

†*americanum* Uhler, Bul. U. S. Geol. Geog. Surv., i, pl. 21, fig. 38, 1876,

Localities: N. J., Pa., N. C., Fla., La., Wis., Kan.

1392. **Lethocerus annulipes** (H. S.)

Herrich–Schaeffer, Wanz. Ins., viii, p. 28, figs. 803, 804, 1846, *Belostoma.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 424, 427, 1871, *Belostoma.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876, *Belostoma.*
Uhler, Proc. Calif. Acad. Sci., ser, 2, iv, p. 291, 1894, *Belostoma.*
Montandon, Ann. Soc. Ent. Belg., xl, p. 514, 1896, *Belostoma.*
Champion, Biol. Centr. Am., Heter., ii, p 367, pl. 22, fig. 3, 1901, *Belostoma.*

ruficeps Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma.*
signoreti Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 382, 1863, *Belostoma.*

Localities: Texas, Colo., Calif. (Neotropical.)

Genus **Belostoma** Latr.

Haplotype *testaceo-pallidum* Latr. = *bosci* Lep. & Serv.

Latreille, Genera Crust. Ins., iii, p. 144, 1807.
Leach, Brewster's Edinbg. Encyc., ix, p. , 1815 (for *testaceo-pallidum*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 522, 1816 (*testaceo-pallidum* only
Le Peletier and Serville, Encyc. Méth., x, p. 273, 1825 (Sect. II). [species).
Leach, Edinbg. Encyc., Am. edn., viii, p. 712, 1832 (for *testaceo-pallidum*).
Montandon, Bul. Soc. Sci. Bucarest, ix, p. 270, 1900; xii, p. 113, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 190, 1908 (catalogue).

Zaitha Amyot and Serville, Hémip., p. 430, 1843 (type *stolli* A. & S. =
Fieber, Genera Hydroc., p. 20, 1851. [*testaceo-pallidum* Latr.).
Herrich-Schaeffer, Wanz. Ins., ix, p. 35, 1853.
Stål, Of. Vet. Akad. Forh., xviii, p. 205, 1861.
Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 342, 352, 1863.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 279, 386, 1863.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 400, 402, 1871.
Stål, Hemip. Afr., iii, p. 179, 1865.
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 187, 1866.
Walker, Cat. Heter., viii, p. 177, 1873.
Berg, Hemip. Argent., p. 189, 1879.
Uhler, Stand. Nat. Hist., ii, p. 257, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901.
Banks, Cat. Neark. Hemip., p. 9, 1910. [*testaceum* Leidy).

Perthostoma Leidy, Jl. Acad. Nat. Sci. Phila., n.s., i, p. 59, 1847 (type

1393. **Belostoma flumineum** Say

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 809; Compl. Writ., i, p.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 388, 1863, *Zaitha*. [364.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 416, 1871, *Zaitha*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Zaitha*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 441, 1878, *Zaitha*.
Uhler, Stand. Nat. Hist., ii, p. 257, 1884, *Zaitha*.
Provancher, Pet. Faune Ent. Can., iii, p. 198, 1888, *Zaitha*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 185, 1894, *Zaitha*.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
Bueno, Can. Ent., xxxviii, p. 189, 1906 (life history).
Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 191, 1908.
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 188, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Severin, Jl. N. Y. Ent. Soc., xix, p. 99, 1911 (habits).
Severin, Behavior Monographs, i, No. 3, 1911 (death feigning).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Parshley, Psyche, xxi, p. 140, 1914.

aurantiacum Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847, *Zaitha*.
†*boscii* Uhler *in* Say, Compl. Writ., i, p. 365, 1859, *Perthostoma*.
†*micrantula* Gillette and Baker, Hemip. Colo., p. 63, 1895, *Zaitha*.

a. var. **immaculatum** Say

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 809; Compl. Writ., i,
Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847 (as new). [p. 365.

Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio, Ind., Ill., Mich., Wis., Tenn., La., Colo., Ariz., Manitoba.

1394. **Belastoma lutarium** (Stål)

Stål, Of. Vet. Akad. Forh., xii, p. 190, 1855, *Zaitha.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 416, 1871, *Zaitha.*
Montandon, Bul. Soc. Sci. Bucarest, xviii, p. 187, 1910.
Bueno, Can. Ent., xliv, p. 213, 1912.
†*aurantiacum* Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 190, 1908.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Localities: R. I., N. Y., N. J., N. C., Fla., La., Texas.

1395. **Belostoma boscii** Lep. & Serv.

Le Peletier and Serville, Encyc. Méth., x, p. 273, 1825.
Amyot and Serville, Hémip., p. 430, 1843, *Zaitha.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 36, 1853, *Zaitha.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 354, 1863, *Zaitha.*
Montandon, Bul. Soc. Sci. Bucarest, ix, p. 271, 1900; xii, p. 117, 1903.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
anurus (Herrich-Schaeffer), Wanz. Ins., viii, p. 26, fig. 799, 1848, *Diplo-*
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 388, 1863, *Zaitha.* [*nychus.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 408, 412, 1871, *Zaitha.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 191, 1894, *Zaitha.*
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223, *Zaitha.*
Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 22, fig. 1, 1901, *Zaitha.*
cuprcomicans (Stål), Of. Vet. Akad. Forh., xi, p. 240, 1854, *Zaitha.*
Stål, Stet. Ent. Zeit., xxiii, p. 461, 1862, *Zaitha.*
subspinosa (Dufour), Ann. Soc. Ent. Fr., ser. 4, iii, p. 387, 1863, *Zaitha.*
Localities: "Carolina," Fla., Ariz., Calif. (Neotropical.)

1396. **Belostoma bifoveatum** (Hald.)

Haldeman, Standsbury's Exped. Gr. Salt Lake, p. 370, pl. 10, fig. 1, 1852, [*Zaitha.*
[May not be distinct from *boscii* Lep. & Serv.)
Locality: Texas.

1397. **Belostoma ellipticum** Latr.

Latreille *in* Humb. & Bompl. Obs. Zool., ii, p. 105, pl. 39, fig. 4, 1833.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 408, 415, 1871, *Zaitha.*
Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 22, fig. 2, 1901, *Zaitha.*
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 117, 1903.
Localities: Texas. (Mexico.)

1398. **Belostoma bakeri** Mont.

Montandon, Bul. Soc. Sci. Bucarest, xxii, p. 123, 1913.
Locality: Calif.

1399. **Belostoma fusciventris** (Duf.)

Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 389, 1863, *Zaitha.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha.*

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Zaitha.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894, *Zaitha.*
Champion, Biol. Centr. Am., Heter., ii, p. 365, pl. 21, fig. 23, 1901, *Zaitha.*
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906.
Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906, *Zaitha.*
Localities: Texas, N. Mex., Ariz., Calif. (Neotropical.)

1400. **Belostoma apache** Kirk.

Kirkaldy, Proc. Ent. Soc. Wash., x, p. 190, 1908 (n.n. for *minor* Duf.).
‖*minor* Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 391, 1863, *Zaitha.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha.*
Champion, Biol. Centr. Am., Heter., ii, p. 366, pl. 21, fig. 24, 1901, [*Zaitha.*

a. var. **cubaensis** (Mayr)
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 417, 1871, *Zaitha.*
Localities: Calif. (Neotropical.)

1401. **Belostoma testaceum** (Leidy)

Leidy, Jl. Acad. Nat. Sci. Phila., ser. 2, i, p. 60, 1847, *Perthostoma.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 354, 1863, *Zaitha.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 409, 417, 1871, *Zaitha.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 44, 1905.
Bueno and Brimley, Ent. News, xviii, p. 435, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
reticulata (Haldeman), *in* Stansbury's Exped. Gr. Salt Lake, p. 370, 1852,
Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 354, 1863, *Zaitha.* [*Zaitha.*
Localities: N. Y., N. J., Pa., D. C., N. C., S. C., Mich., Texas.

Genus **Abedus** Stål
Logotype *ovatus* Stål

Stål, Stet. Ent. Zeit., xxiii, p. 461, 1862.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 379, 396, 1863.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 400, 401, 403, 1871.
Stål, Hemip. Afr., iii, p. 180, 1865.
Uhler, Stand. Nat. Hist., ii, p. 258, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 363, 1901.
Montandon, Bul. Soc. Sci. Bucarest, ix, Nos. 2, 3, p. 11, 1900.
Montandon, Bul. Soc. Sci. Bucarest, xii, pp. 110, 113, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
Bueno, Can. Ent., xxxix, p. 336, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 189, 1908.

Subgenus **Abedus** Stål

Stenoscytus Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 341, 343, 1863 [(type *mexicanus* Mayr = *ovatus* Stål).

1402. **Abedus ovatus** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 396, 1863.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 404, 1871.
Uhler, Wheeler's Surv. 100th Merid., v, p. 840, 1875.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 291, 1894.
Champion, Biol. Centr. Am., Heter., ii, p. 363, pl. 21, fig. 19, 1901.
mexicanus Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 347, pl. 11, figs. 6–10, [1863,*Stenoscytus.*
Localities: Texas, N. Mex., Ariz. (Mexico.)

1403. **Abedus breviceps** Stål

Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 396, 1863.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 404, 1871.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
Champion, Biol. Centr. Am., Heter., ii, p. 363, pl. 21, fig. 20, 1901.
Localities: N. Mex., Ariz. (Mexico.)

Subgenus **Deinostoma** Kirk.
Haplotype *dilatata* Say

Kirkaldy, Entomologist, xxx, p. 258, 1897 (n.n. for *Serphus* Stål).
Champion, Biol. Centr. Am., Heter., ii, p. 362, 1901.
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 113, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.
‖*Serphus* Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862.
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, pp. 379, 395, 1863.
Stål, Hemip. Afr., iii, p. 179, 1865.
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, pp. 401, 403, 1871.

1404. **Abedus dilatatus** (Say)

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 810; Compl. Writ., i, p.
Stål, Stet. Ent. Zeit., xxiii, p. 462, 1862, *Serphus.* [366, *Belostoma.*
Dufour, Ann. Soc. Ent. Fr., ser. 4, iii, p. 395, 1863, *Serphus.*
Mayr, Verh. Zool.-Bot. Ges. Wien, xxi, p. 403, 1871, *Serphus.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876, *Serphus.*
Uhler, Stand. Nat. Hist., ii, p. 258, 1884, *Serphus.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894, *Serphus.*
Kirkaldy, Entomologist, xxx, p. 259, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 362, 1901.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
†*stollii* Herrich-Schaeffer, Wanz. Ins., ix, p. 35, fig. 898, 1853, *Zaitha.*
Localities: Ariz., Calif. (Mexico.)

Subgenus **Pedinocoris** Mayr
Logotype *macronyx* Mayr

Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, pp. 341, 347, 1863; xxi, pp. 401, 405,
Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901. [1871.
Montandon, Bul. Soc. Sci. Bucarest, xii, p. 113, 1903.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 151, 1906.

1405. **Abedus macronyx** Mayr

Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 350, pl. 11, figs. 1–4, 1863.
Mayr, Ver. Zool.-Bot. Ges. Wien, xxi, p. 405, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 338, 1876.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1331.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 292, 1894.

Kirkaldy, Entomologist, xxxi, p. 3, 1898.
Champion, Biol. Centr. Am., Heter., ii, p. 364, 1901.
Localities: Ariz., Calif. (Mexico.)

1406. **Abedus indentatus** (Hald.)

Haldeman, Proc. Acad. Nat. Sci. Phila., vi, p. 364, 1853, *Zaitha.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1331. [405, 1871.
brachyonyx Mayr, Verh. Zool.-Bot. Ges. Wien, xiii, p. 351, 1863; xxi, p.
Localities: Ariz., Calif.

Superfamily OCHTEROIDEAE Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 60, 1910.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.
Litoralia Fieber, Genera Hydroc., pp. 9, 12, 1851 (sub-section).
Fieber, Europ. Hemip., pp. 22, 23, 1860.

PHALANX *OCHTERIFORMES* Reut.

Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 61, 1910.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Family GELASTOCORIDAE Kirk.

Kirkaldy, Entomologist, xxx, p. 258, 1897.
Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.
Bueno, Ohio Nat., v, p. 290, 1905.
Banks, Cat. Neare. Hemip., p. 10, 1910.
Galgulides Billberg, Enum. Ins. Mus. Billb., p. 66, 1820.
Laporte, Essai Classif Syst. Hémip., p. 15, 1832, Fam. *Galgulites.*
Burmeister, Handb. d. Ent., ii, p. 200, 1835, *Galgulini.*
Brullé, Hist. Nat. des Ins., ix, p. 272, 1835, *Galguliens.*
Spinola, Essai sur les Hémip., p. 60, 1837 (1840), *Galgulites.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 92, 1840, *Galguliens.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 463, 1840, *Galgulidae.*
Spinola, Tavola Sinot., pp. 27, 49, 1850, *Galgulitae.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 18, 1853, *Galgulini* (part).
Dohrn, Cat. Hemip., p. 53, 1859, *Galgulidae.*
Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862, *Galgulida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 181, 1868, *Galgulina.*
Walker, Cat. Heter., viii, p. 170, 1873, *Galgulidae.*
Stål, Enum. Hemip., v, p. 137, 1876, *Galgulidae.*
Berg, Hemip. Argent, p. 184, 1879, *Galgulidae.*
Uhler, Stand. Nat. Hist., ii, p. 262, 1884, *Galgulidae.*
Oshanin, Verz. Palae. Hemip., i, p. 955, 1909, *Galgulidae.*
Nerthridae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Bueno and Brimley, Ent. News, xviii, p. 433, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 61, 79, 1910.
Bueno *in* Smith, Cat. Ins. N. J., edn. 3, p. 167, 1910.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.
Mononychidae Horvath, Ann. Mus., Natl. Hung., ix, p. 25, 1911.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Subfamily GELASTOCORINAE Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.
Bueno, Ohio Nat., v, p. 290, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Bueno and Brimley, Ent. News, xviii, p. 433, 1907.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.
Galguloidea Fieber, Genera Hydroc., pp. 9, 13, 1851. (Family.)
Stål, Enum. Hemip., v, p. 137, 1876, *Galgulina.*
Berg, Hemip. Argent., p. 184, 1879, *Galgulina.*

Genus **Gelastocoris** Kirk.
Haplotype *oculata* Fabr.

Kirkaldy, Entomologist, xxx, p. 258, 1897 (n.n. for *Galgulus* Latr.).
Champion, Biol. Centr. Am., Heter., ii, p. 347, 1901.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 180, 1908.
Galgulus Latreille, Hist. Nat. Crust. Ins., iii, p. 253, 1901 (*oculata* only [species).
Latreille, Hist. Nat. Crust. Ins., xii, p. 286, 1804.
Latreille, Genera Crust. Ins., iii, p. 143, 1807.
Latreille, Consid. Génl., pp. 260, 434, 1810 (names *oculata* type).
Leach, Brewster's Edinburg Encyc., ix, p. 123, 1815 (for *oculatus*).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 509, 1816.
Latreille, Fam. Nat. Règne Anim., pp. 424, 425, 1825, *Galgule.*
Le Peletier and Serville, Encyc. Méth., x, p. 270, 1825.
Laporte, Essai Classif. Syst. Hémip., p. 16, 1832 (names *oculata* type).
Burmeister, Handb. d. Ent., ii, p. 201, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 274, 1835.
Spinola, Essai sur les Hémip., p. 62, 1837 (1840).
Herrich-Schaeffer, Wanz. Ins., v, p. 87, 1839.
Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840.
Amyot and Serville, Hémip., p. 424, 1843.
Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Genera Hydroc., p. 13, 1851.
Herrich-Schaeffer, Wanz. Ins., ix, pp. 19, 24, 1853.
Walker, Cat. Heter., viii, p. 170, 1873.
Stål, Enum. Hemip., v, p. 137, 1876.
Berg, Hemip. Argent., p. 185, 1879.
Uhler, Stand. Nat. Hist., ii, p. 263, 1884.

1407. **Gelastocoris oculatus** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 525, 1798, *Naucoris.*
Latreille, Hist. Nat. Crust. Ins., iii, p. 254, 1802, *Galgulus.*
Fabricius, Syst. Rhyn., p. 111, 1803, *Naucoris.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 287, 1804, *Galgulus.*
Leach, Edinbg. Encyc., ix, p. 123, 1815, *Galgulus.*
Le Peletier and Serville, Encyc. Méth., x, p. 271, 1825, *Galgulus.*
Burmeister, Handb. d. Ent., ii, p. 202, 1835, *Galgulus.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840, *Galgulus.*
Amyot and Serville, Hémip., p. 424, 1843, *Galgulus.*
Stål, Hemip. Fabr., i, p. 133, 1868, *Galgulus.*
Walker, Cat. Heter., viii, p. 170, 1873, *Galgulus.*
Stål, Enum. Hemip., v, p. 137, 1876, *Galgulus.*

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 336, 1876, *Galgulus*.
Uhler, Wheeler's Rept. Chief Eng. for 1877, *Galgulus*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 440, 1878, *Galgulus*.
Uhler, Stand. Nat. Hist., ii, p. 263, 1884, *Galgulus*.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Galgulus*.
Gillette and Baker, Hemip. Colo., p. 62, 1895, *Galgulus*.
Champion, Biol. Centr. Am., Heter., ii, p. 348, 1901.
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 43, 1905.
Bueno and Brimley, Ent. News, xviii, p. 433, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
?pulcher Stål, Of. Vet. Akad. Forh., xi, p. 239, 1854, *Galgulus*.
Localities: N. Y., N. J., Pa., Md., D. C., "Carolina," Ga., Fla., N. C., Ohio, Mich., Ill., Minn., Colo., Okla., Ariz.

1408. **Gelostocoris vicinus** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 349, 1901.
Localities: "Southern and Western States." (Neotropical.)

1409. **Gelastocoris variegatus** (Guer.)

Guerin, Icon. Ins., p. 352, 1844, *Galgulus*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 336, 1876, *Galgulus*.
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1331, *Galgulus*.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894, *Galgulus*.
Champion, Biol. Centr. Am., Heter., ii, p. 349, pl. 20, figs. 19, 20, 1901.
Barber, Brookl. Inst., Sci. Bul., i, p. 288, 1906.
?Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
†*nebulosus* Stål, Enum. Hemip., v, p. 137, 1876, *Galgulus*.
Localities: Texas, N. Mex., Calif. (Neotropical.)

Subfamily MONONYCHINAE Fieb.

Fieber, Genera Hydroc., pp. 9, 12, 1851, Fam. *Mononycoidea*.
Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861, *Mononychida*.
Stål, Stet. Ent. Zeit., vii, p. 405, 1863, *Mononychida*.
Stål, Hemip. Afr., iii, p. 171, 1865, Fam. *Mononychida*.
Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Mononychina*.
Stål, Enum. Hemip., v, p. 138, 1876, *Mononychina*.
Berg, Hemip. Argent., p. 185, 1879, *Mononychina*.
Uhler, Check List., p. 27, 1886, *Mononychina*.
Champion, Biol. Centr. Am., Heter., ii, p. 350, 1901.
Distant, Fauna Br. Ind., Rhyn., iii, p. 14, 1906.
Bueno, Ohio Nat., v, p. 290, 1905.
Oshanin, Verz. Palae. Hemip., i, p. 956, 1909.
Nerthrinae Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 181, 1908.

Genus **Mononyx** Lap.
Orthotype *raptoria* Fabr.

Laporte, Essai Classif. Syst. Hémip., p. 16, 1832 (names *raptoria* type).
Burmeister, Handb. d. Ent., ii, p. 201, 1835.
Brullé, Hist. Nat. des Ins., ix, pp. 274, 275, 1835 (names *raptoria* type).
Spinola, Essai sur les Hémip., p. 63, 1837 (1840).
Blanchard, Hist. Nat. des Ins., Hemip., p. 93, 1840 (cites *raptoria* as type).

Amyot and Serville, Hémip., p. 425, 1843.
Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Genera Hydroc., p. 12, 1851.
Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861.
Stål, Berl. Ent. Zeit., vii, p. 405, 1863.
Stål, Hemip. Afr., iii, p. 171, 1865.
Stål, Enum. Hemip., v, p. 138, 1876.
Uhler, Stand. Nat. Hist., ii, p. 264, 1884.
Montandon, Bul. Soc. Sci. Bucarest, viii, p. 392, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 350, 1901.
Distant, Fauna Br. Ind., Rhyn., iii, p. 14, 1906 (cites *raptoria* as type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 181, 1908.

Phintius Stål, Of. Vet. Akad. Forh., xviii, p. 201, 1861 (logotype *sordidus* Stål, Berl. Ent. Zeit., vii, p. 407, 1863. [H. S.).
Stål, Hemip. Afr., iii, p. 172, 1865.
Stål, Enum. Hemip., v, p. 139, 1876.

1410. **Mononyx fuscipes** Guer.

Guerin, Rev. Zool. for 1843, p. 114.
Stål, Berl. Ent. Zeit., vii, p. 406, 1863.
Stål, Enum. Hemip., iii, p. 138, 1876.
Montandon, Bul. Soc. Sci. Bucarest, viii, pp. 395, 400, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 351, pl. 20, figs. 21, 22, 1901.

badius Herrich-Schaeffer, Wanz. Ins., ix, p. 27, fig. 894, 1853.
Stål, Stet. Ent. Zeit., xxiii, p. 459, 1862.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 337, 1876.

obscurus Stål, Of. Vet. Akad. Forh., xi, p. 239, 1854.

†*raptorius* Walker, Cat. Heter., viii, p. 171, 1873.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 223.

?*stygicus* Uhler, Stand. Nat. Hist., ii, p. 264, 1884.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 290, 1894.
Howard, Insect Book, pl. 29, fig. 16, 1905.
Localities: Calif. (Neotropical.)

Genus **Nerthra** Say
Haplotype *stygica* Say

Say, Heter. N. Harm., p. 37, 1832; Fitch reprint, p. 808; Compl. Writ., i, p. 364.
Stål, Enum. Hemip., v, p. 139, 1876.
Kirkaldy, Entomologist, xxxi, p. 2, 1898.
Bueno, Ohio Nat., v, p. 287, 1905.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 150, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 182, 1908.

1411. **Nerthra stygica** Say

Say, Heter. N. Harm., p. 37, 1832; Fitch reprint, p. 808; Compl. Writ., i, p. 364.
Stål, Berl. Ent. Zeit., vii, p. 406, 1863, *Mononyx*.
Stål, Enum. Hemip., v, p. 139, 1876.
Uhler, Check List, p. 27, 1886, *Mononyx*.
Bueno, Ohio Nat., v, p. 288, figs. 1, 2, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Localities: Ga., Fla.

Family OCHTERIDAE Kirk.

Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 179, 1908 (catalogue).
Kirkaldy, Can. Ent., xl, p. 361, 1908.
Kirkaldy, Cat. Hemip., p. xxiv, 1909.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 61, 79, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 25, 1911.
Reuter, Of. Vet. Akad. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Pelogonida Leach, Edinbg. Encyc., ix, p. 123, 1815.
Amyot and Serville, Hémip., pp. xlix, 407, 1843, Groupe *Pelogonides.*
Spinola, Tavola Sinot., pp. 27, 49, 1850, Fam. *Pelogonitae* (part).
Fieber, Genera Hydroc., pp. 9, 14, 1851, *Pelogonidea.*
Dohrn, Cat. Hemip., p. 52, 1859, *Pelogonidae.*
Fieber, Europ. Hemip., pp. 23, 32, 103, 1860, *Pelogonidae.*
Stål, Hemip. Afr., iii, p. 170, 1865, *Pelogonida.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 181, 1868, *Pelogonida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 706, 1870, *Pelogonina.*
Walker, Cat. Heter., viii, p. 158, 1873, *Pelogonidae.*
Stål, Enum. Hemip., v, p. 137, 1876, *Pelogonina.*
Puton, Cat. Hemip. Palae., edn. 3, p. 64, 1886, *Pelogonides.*
Champion, Biol. Centr. Am., Heter., ii, p. 344, 1900, *Pelogonidae.*
Distant, Fauna Br. Ind., Rhyn., iii, p. 13, 1906, *Pelogonidae.*
Bueno, Ohio Nat., v, p. 290, 1905, *Pelogonidae.*
Oshanin, Verz. Palae. Hemip., i, p. 955, 1909, *Pelogonina.*

Genus **Ochterus** Latr.
Haplotype *marginatus* Latr.

Latreille, Genera Crust. Ins., iii, p. 142, 1807.
Bergroth, Bul. Soc. Ent. Fr. for 1890, pp. lxvi, cxix.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 149, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 179, 1908.
Oshanin, Kat. Palae. Hemip., p. 89, 1912.

Pelogonus Latreille, Genera Crust. Ins., iv, p. 384, 1809 (n.n. for *Ochterus*).
Latreille, Consid. Génl., pp. 260, 434, 1810 (names *marginatus* type).
Latreille, Fam. Nat. Règne Anim., p. 423, 1825, *Pelogone.* [type).
Laporte, Essai Classif. Syst. Hémip., p. 13, 1832 (names *marginatus*
Leach, Brewster's Edinbg. Encyc., Am. edn., viii, p. 712, 1832.
Burmeister, Handb. d. Ent., ii, p. 202, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 276, 1835.
Spinola, Essai sur les Hemip., p. 75, 1837.
Blanchard, Hist. Nat. des Ins., Hémip., p. 93, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, p. 465, 1840.
Amyot and Serville, Hémip., p. 407, 1843.
Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Genera Hydroc., p. 14, 1851.
Herrich–Schaeffer, Wanz. Ins., ix, p. 23, 1853.
Fieber, Europ. Hemip., pp. 32, 103, 1860.
Stål, Hemip. Afr., iii, p. 170, 1865.
Walker, Cat. Heter., viii, p. 158, 1873.

Stål, Enum. Hemip., v, p. 137, 1876.
Uhler, Stand. Nat. Hist., ii, p. 262, 1884.
Champion, Biol. Centr. Am., Heter., ii, p. 344, 1901.
Distant, Fauna Br. Ind., Rhyn., iii, p. 13, 1906.
Oshanin, Ver. Palae. Hemip., i, p. 955, 1908.

1412. **Ochterus americanus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 335, 1876, *Pelogonus.*
Uhler, Stand. Nat. Hist., ii, p. 262, 1884, *Pelogonus.*
Bueno, Jl. N. Y. Ent. Soc., xiii, p. 43, 1905, *Pelogonus.*
Bueno and Brimley, Ent. News, xviii, p. 433, 1907.
Snow, Trans. Kans. Acad. Sci., xx, pt. 1, p. 180, 1906, *Pelogonus.*
Bueno, Jl. N. Y. Ent. Soc., xvi, p. 237, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 166, 1910.
Barber, Can. Ent., xlv, p. 213, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1914.
Localities: Mass., N. Y., N. J., Pa., Md., N. C., Fla., Ill., Neb., Texas, Ariz.

1413. **Ochterus banksi** Barb.

Barber, Can. Ent., xlv, p. 214, 1913.
Locality. Va.

1414. **Ochterus flaviclavus** Barb.

Barber, Can. Ent., xlv, p. 215, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 498, 1913.
Locality: Fla.

SERIES *SANDALIORRHYNCHA* Borner

Borner, Zool. Anzieg., xvii, p. 522, 1904 (as new suborder).
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 13, 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 91, 1912.
Bueno, Ann. Ent. Soc. Am., ix, p. 353, 1917 (as order).

Superfamily CORIXOIDEAE Reut.

Reuter, Acta Finska Vet. Soc. Forh., liv, Afd. A, No. 6, p. 48, 1912.
Oshanin, Kat. Palae. Hemip., p. 91, 1912.

Family **CORIXIDAE** Leach

Leach, Brewster's Edinbg. Encyc., ix, p. 124, 1815; Am. edn., viii, p. 713, 1832, [*Corixida.*
Amyot and Serville, Hémip., pp. li, 444, 1843, Groupe *Corisides.*
Fieber, Genera Hydroc., p. 9, 1851, *Corisidea.*
Dohrn, Cat. Hemip., p. 55, 1859, *Corixidae.*
Flor, Rhyn. Livl., i, pp. 752, 775, 1860, *Corisidea.*
Fieber, Europ. Hemip., pp. 22, 31, 89, 1860, *Corisae.*
Douglas and Scott, Brit. Hemip., p. 49, 1865, *Corixina.*
Mayr, Reise Freg. Novara, Zool., ii, Hemip., p. 193, 1868, *Corisida.*
Uhler, Stand. Nat. Hist., ii, p. 250, 1884, *Corisidae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 65, 1886, *Corixides.*
Champion, Biol. Centr. Am., Heter., ii, p. 375, 1901.

Distant, Fauna Br. Ind., Rhyn., iii, p. 49, 1906.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
Kirkaldy, Can. Ent., xl, p. 362, 1908.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.
Kirkaldy, Cat. Hemip., i, p. xxv, 1909.
Oshanin, Verz. Palae. Hemip., i, p. 978, 1909.
Distant, Fauna Brit. Ind., Rhyn., v, p. 339, 1910.
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, pp. 63, 80, 1910.
Horvath, Ann. Mus. Natl. Hung., ix, p. 27, 1911.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 6, pp. 48, 50, 1912.
Oshanin, Kat. Palae. Hemip., p. 91, 1912.
Sigarida Stål, Hemip. Afr., iii, p. 193, 1865.

Genus **Tenagobia** Bergr.
Haplotype *marmorata* Bergr.

Bergroth, Ent. Mo. Mag., xxxv, p. 282, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 383, 1901.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.

1415. **Tenagobia socialis** (White)

B. White, Trans. Ent. Soc. Lond. for 1879, p. 174, *Sigara*.
Uhler, Proc. Zool. Soc. Lond. for 1894, p. 224, *Sigara*.
Champion, Biol. Centr. Am., Heter., ii, p. 383, pl. 22, fig. 27, 1901.
Localities: Calif. (Neotropical.)

Genus **Callicorixa** White
Logotype *praeusta* Fieb.

B. White, Ent. Mo. Mag., x, p. 62, 1873.
Puton, Synop. Heter. Fr., i, p. 232, 1879, Subgen. *Callicorisa*.
Wallengren, Ent. Tidskr., xv, p. 137, 1894, Subgen. *Callicorisa*.
Kirkaldy, Entomologist, xxxi, p. 253, 1898 (names *praeusta* type).
Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 40, 1901.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 193, 1908.
Kirkaldy, Can. Ent., xl, p. 117, 1908.

1416. **Callicorixa praeusta** (Fieb.)

Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 521, pl. 10, figs. 14, 22, 1848, *Corisa*.
Fieber, Spec. Generis Corisa, p. 28, pl. 1, No. 17, figs. 1–18, 1851, *Corisa*.
Flor, Rhyn. Livl., i, p. 787, 1860, *Corisa*.
Fieber, Europ. Hemip., p. 95, 1860, *Corisa*.
White, Ent. Mo. Mag., x, p. 76, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876, *Corixa*.
Puton, Synop. Heter. Fr., i, p. 233, 1879, *Corisa*.
Saunders, Heter. Brit. Isds., pp. 333, 339, 1892, *Corisa*.
Wallengren, Ent. Tidskr, xv, p. 138, 1894.
Oshanin, Verz. Palae. Hemip., i, p. 993, 1909.
Localities: Alaska: (Palaearctic.)

1417. **Callicorixa kollarii** (Fieb.)

Fieber, Spec. Generis Corisa, p. 17, pl. 1, No. 7, 1851, *Corisa*.
Guerin, Sagra, Hist. de Cuba, Ins., p. 177, pl. 13, fig. 14, 1857, *Corisa*.

Champion, Biol. Centr. Am., Heter., ii, p. 377, pl. 22, fig. 18, 1901, *Corixa.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.
†*cubae* Uhler, Proc. Zool. Soc. Lond. for 1894, p. 224, *Corixa.*
Localities: "Canada," Mass., Pa., Fla., Texas, Alaska. (Palaearctic.)

1418. **Callicorixa geblerii** (Fieb.)

Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 522, 1848, *Corisa.*
Fieber, Spec. Generis Corisa, p. 29, pl. 2, fig. 10, 1851, *Corisa.*
Fieber, Europ. Hemip., p. 96, 1860, *Corisa.*
Oshanin, Verz. Palae. Hemip., i, p. 996, 1909.
Localities: Alaska. (Palaearctic.)

Genus **Ramphocorixa** Abbott
Haplotype *balanodis* Abbott

Abbott, Can. Ent., xliv, p. 120, 1912.

1419. **Ramphocorixa balanodis** Abbott

Abbott, Can. Ent., xliv, p. 118, 1912.
Abbott, Am. Nat., xlvi, p. 553, 1912 (habits).
Locality: Mo.

Genus Arctocorixa Wallen
Logotype *carinata* Sahlbg.

Wallengren, Ent. Tidskr., xv, pp. 133, 150, 1894.
Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 41, 1901 (as subgenus).
Kirkaldy, Entomologist, xxxix, p. 62, 1906.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 194, 1908.
Kirkaldy, Can. Ent., xl, p. 118, 1908.
Basileocorixa Kirkaldy, Entomologist, xxxi, p. 253, 1898 (n.n. for *Corixa* [Auct., type *striata* Linn.).
†*Corixa* Thomson, Opusc. Ent., Fasc., i, p. 27, 1869, *Corisa.*
B. White, Ent. Mo. Mag., x, p. 62, 1873.
Puton, Synop. Heter. Fr., i, p. 222, 1879, *Corisa.*
Wallengren, Ent. Tidskr, xvi, p. 141, 1894, *Corisa.*

Subgenus **Arctocorixa** Wallen

Kirkaldy, Can. Ent., xl, p. 118, 1908.
[The species in this subgenus are arranged alphabetically, as no systematic study of our forms has been published.]

1420. **Arctocorixa abdominalis** (Say)

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 811; Compl. Writ., i, p.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876. [366, *Corixa.*
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 294, 1894, *Corixa.*
Champion, Biol. Centr. Am., Heter., ii, p. 381, pl. 22, fig. 25, 1901, *Corixa.*
bimaculata (Guerin), Icon. Règne Anim., Ins., p. 354, 1844, *Corixa.*
Fieber, Spec. Generis Corisa, p. 42, 1851, *Corisa.*
Walker, Cat. Heter., viii, p. 199, 1873, *Corixa.*
femorata (Guerin), Bul. Soc. Zool. Acclim., iv, p. 581, 1857, *Corixa.*
Guerin, Rev. Zool. for 1857, p. 526, *Corixa.*
Localities: Texas, Calif. (Mexico.)

1421. **Arctocorixa acuminata** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 392, 1897, *Corixa.*
Localities: Ill., Texas.

1422. **Arctocorixa alternata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 329, 1825; Compl. Writ., ii, p. 251,
Fieber, Spec. Generis Corisa, p. 43, 1851, *Corisa* (note). [*Corixa.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Corixa.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 446, 1878, *Corixa.*
Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888, *Corisa.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Corixa.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.
Localities: Me., N. H., N. Y., Fla., Ill., Mo.

1423. **Arctocorixa bilineata** (Prov.)

Provancher, Nat. Can., iv, p. 108, 1872, *Corisa.* [changed).
bivittata Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888 (name
Locality: Quebec.

[**Arctocorixa bradleyi** Abbott MS]

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.
Locality: Ga.

1424. **Arctocorixa calva** (Say)

Say, Heter. N. Harm., p. 38, 1832; Fitch reprint, p. 810; Compl. Writ., i, p.
Fieber, Spec. Generis Corisa, p. 19, 1851, *Corisa.* [366, *Corixa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa.*
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 444, 1878, *Corisa.*
Gillette and Baker, Hemip. Colo., p. 63, 1895, *Corisa.*
Smith, Cat. Ins. N. J., edn. 3, p. 168, 1910.
Localities: Ont., Me., Mass., Pa., Colo., Texas, Alaska.

[**Arctocorixa compressa** Abbott MS]

Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.
Locality: Ga.

1425. **Arctocorixa convexa** (Fieb.)

Fieber, Spec. Generis Corisa, p. 37, 1851, *Corisa.*
Locality: Labrador.

1426. **Arctocorixa decolor** (Uhl.)

Uhler, Am. Jl. Sci., ser. 3, i, p. 106, 1871, *Corixa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iii, p. 455, 1877, *Corixa.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa.*
Localities: Utah, Calif.

1426½. **Arctocorixa decorata** Abbott

Abbott, Ent. News, xxvii, p. 341, 1916.
Locality: Mass.

1427. **Arctocorixa dispersa** (Uhl.)

Uhler, Wheeler's Surv. 100th Merid., v, p. 841, pl. 42, fig. 7, 1875, *Corisa.*
Localities: Texas, Nev., Calif.

1427½. **Arctocorixa dubia** Abbott

Abbott, Ent. News, xxvii, p. 342, 1916.
Locality: Mass.

1428. **Arctocorixa edulis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 380, pl. 22, fig. 24, 1901, *Corixa.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 195, 1908.
Localities: "S. St." (Mexico.)

1429. **Arctocorixa erichsonii** (Fieb.)

Fieber, Spec. Generis Corisa, p. 35, 1851, *Corisa.*
Locality: Pa.

1430. **Arctocorixa escheri** (Heer)

Heer, Insektf. Tertiar. v. Oenigen, iii, p. 87, 1853, *Corisa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa.*
Locality: Wash.

1431. **Arctocorixa expleta** (Uhl.)

Uhler, Hemip. Colo., p. 63, 1895, *Corisa.*
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Localities: N. J., Colo.

1432. **Arctocorixa fossarum** (Leach)

Leach, Trans. Linn. Soc. Lond., xii, p. 17, 1818, *Corixa.*
Fallén, Hemip. Suec., Cimic., p. 182, 1829, *Corixa.*
Herrich-Schaeffer, Nomen. Ent., i, p. 63, 1835, *Corixa.*
Zetterstedt, Ins. Lapp., column 285, 1840, *Corixa.*
Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 525, 1848, *Corixa.*
Fieber, Spec. Generis Corisa, p. 32, 1851, *Corisa.*
Herrich-Schaeffer, Wanz. Ins., ix, p. 55, fig. 905, 1853, *Corixa.*
Flor, Rhyn. Livl., i, p. 795, 1860, *Corisa.*
Fieber, Europ. Hemip., p. 98, 1860, *Corisa.*
Douglas and Scott, Brit. Hemip., p. 611, 1865, *Corisa.*
Thomson, Opusc. Ent., i, p. 37, 1869, *Corisa.*
Puton, Synop. Heter. Fr., i, p. 231, 1879, *Corisa.*
Wallengren, Ent. Tidskr., xv, pp. 143, 156, 1894.
Kirkaldy, Jl. Quekett Micros. Club., ser. 2, No. 48, p. 42, 1901.
Localities: Calif. (Palaearctic.)

1433. **Arctocorixa germarii** (Fieb.)

Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 531, 1848, *Corisa.*
Fieber, Spec. Generis Corisa, p. 38, pl. 2, No. 26, 1851, *Corisa.*
Fieber, Europ. Hemip., p. 99, 1860, *Corisa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa.*
Puton, Synop. Heter. Fr., i, p. 234, 1879, *Corisa.*
Kirkaldy, Entomologist, xxxi, p. 251, 1898, *Corixa.*
Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 43, 1901.
variegata (Wallengren), Of. Vet. Akad. Forh., xi, p. 148, 1854, *Corisa.*
Wallengren, Ent. Tidskr., xv, p. 159, 1894, *Corisa* subgen. *Arctocorisa.*
intricata (Douglas and Scott), Ent. Mo. Mag., v, p. 295, 1869, *Corisa.*
B. White, Ent. Mo. Mag., x, p. 77, 1873, *Oreinocorixa.*
Localities: Alaska. (Palaearctic.)

1434. **Arctocorixa harrisii** (Uhl.)

Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 444, 1878, *Corisa*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Corixa*.
Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910.
Localities: Ont., Me., N. Y.

1435. **Arctocorixa hydatotrephes** Kirk.

Kirkaldy, Can. Ent., xl, p. 119, 1908.
Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.
Localities: N. C., Ga.

1436. **Arctocorixa inscripta** (Uhl.)

Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 294, 1894, *Corixa*.
Champion, Biol. Centr. Am., Heter., ii, p. 376, 1901, *Corixa*.
Localities: Texas, Colo., N. Mex., Ariz., Calif. (Mexico.)

1437. **Arctocorixa interrupta** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 328, 1825; Compl. Writ., ii, p. 250, [*Corixa*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iii, p. 454, 1877, *Corixa*.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Corixa*.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878, *Corisa*.
Uhler, Proc. Bost. Soc. Nat. Hist., xix, p. 445, 1878, *Corisa*.
Uhler, Stand. Nat. Hist., ii, p. 250, 1884, *Corisa*.
Champion, Biol. Centr. Am., Heter., ii, p. 376, 1901, *Corixa*.
Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.
Abbott, Wash. Univ. Studies, i, p. 10, 1913.
Parshley, Psyche, xxi, p. 140, 1914.
?interrupta (Fieber), Spec. Generis Corisa, p. 27, 1851, *Corisa*. (May not [belong here.)
Localities: Me., Mass., N. Y., Md., Ill., Minn., Mo., Mont., Colo., N. Mex., Calif. (Mexico.)

1438. **Arctocorixa kennicottii** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 393, 1897, *Corixa*.
Parshley, Psyche, xxi, p. 140, 1914, *Corixa*.
Localities: Me., Ill.

1439. **Arctocorixa kirbyi** (Fieb.)

Fieber, Spec. Generis Corisa, p. 43, 1851, *Corisa*.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908.
‖*carinata* (Kirby) *in* Richardson, Fauna Bor. Am., iv, p. 284, 1837, *Corixa*.
Kirby *in* Bethune's reprint, p. 139, *Corixa*.
Locality: "Canada."

1440. **Arctocorixa laevigata** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa*.
Uhler, Proc. Calif. Acad. Sci., ser. 2, iv, p. 295, 1894, *Corisa*.
Localities: Utah, Nevada, Calif., Wash., Ore.

1441. **Arctocorixa lateralis** (Leach)

Leach, Trans. Linn. Soc. Lond., xii, p. 17, 1818, *Corixa*.
Kirkaldy, Entomologist, xxxiii, p. 10, 1900.

Kirkaldy, Jl. Quekett Micors. Club., ser. 2, No. 48, p. 44, fig. 30, 1910.
hieroglyphica (Dufour), Rech. Anat., p. 214, figs. 85–87, 1833, *Corixa.*
Burmeister, Handb. d. Ent., ii, p. 188, 1835, *Corixa.*
Spinola, Essai sur les Hémip., p. 56, 1837, *Corixa.*
Fieber, Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 517, 1848, *Corixa.*
Fieber, Spec. Generis Corisa, p. 22, pl. 1, No. 20, 1851, *Corisa.*
Fieber, Europ. Hemip., p. 93, 1860, *Corisa.*
Douglas and Scott, Brit. Hemip., p. 598, 1865, *Corisa.*
Thomson, Opusc. Ent., i, p. 35, 1869, *Corisa.*
B. White, Ent. Mo. Mag., x, p. 76, 1873, *Corixa.*
Saunders, Heter. Brit. Isds., pp. 331, 334, 1892, *Corixa.*
Wallengren, Ent. Tidskr., x, pp. 142, 144, 1894.
Kirkaldy, Entomologist, xxxi, pt. 2, 1898, *Corixa.*
Distant, Fauna Brit. Ind., Rhyn., iii, p. 49, fig. 29, 1906.
Oshanin, Verz. Palae. Hemip., i, p. 982, 1908, *Corixa.*
fieberi (Wallengren), Of. Vet. Akad. Forh., xi, p. 143, 1854, *Corisa.*
vaga (Wallengren), Of. Vet. Akad. Forh., xi, p. 143, 1854, *Corisa.*
Localities: Pa. (Palaearctic.)

1442. **Arctocorixa lineata** (Forst.)

Forster, Nov. Spec. Ins., p. 70, 1771, *Notonecta.*
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908 (catalogue).
noveboracensis Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2119, [1788, *Notonecta* (unnecessary n.n. for *lineata* Forst.)
Turton, Linnaeus, Syst. Nat., edn. 13, Eng. transl., ii, p. 605, 1806,
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 196, 1908. [*Notonecta.*
Locality: N. Y.

1442½. **Arctocorixa lucida** Abbott

Abbott, Ent. News, xxvii, p. 341, 1916.
Localities: Mass., R. I., Conn.

1443. **Arctocorixa mercenaria** (Say)

Say, Heter. N. Harm., p. 39, 1832; Fitch reprint, p. 811; Compl. Writ., i, p. [367, *Corixa.*
Guerin, Bul. Soc. Zool. Acclim., iv, p. 581, 1857, *Corixa.*
Guerin, Rev. Zool. for 1857, p. 526, *Corixa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Corixa.*
Kirkaldy, Ent. Mo. Mag., xxxiv, p. 173, 1898, *Corixa.*
Kirkaldy, Revue d'Ent., xviii, p. 95, 1899.
Champion, Biol. Centr. Am., Heter., ii, p. 379, pl. 22, fig. 23, 1901, *Corixa.*
Localities: N. Mex., Calif. (Neotropical.)

1443½. **Arctocorixa modesta** Abbott

Abbott, Ent. News, xxvii, p. 343, 1916.
Localities: Md., D. C., Va.

1444. **Arctocorixa nitida** (Fieb.)

Fieber, Spec. Generis Corisa, p. 28, pl. 2, No. 8, 1851, *Corisa.*
Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.
Parshley, Psyche, xxi, p. 140, 1914.
a. var. **minor** Abbott.
Abbott, Bul. Brookl. Ent. Soc., viii, p. 82, 1913.
Localities: Me., Md., N. C., Ga.

1444¼. **Arctocorixa ornata** Abbott
Abbott, Ent. News, xxvii, p. 341, 1916.
Localities: Me., Mass., Conn., N. Y.

1444½. **Arctocorixa parshleyi** Abbott
Abbott, Ent. News, xxvii, p. 342, 1916.
Localities: Me., N. Y.

1445. **Arctocorixa pectenata** Abbott
Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.
Locality: Ga.

1446. **Arctocorixa planifrons** (Kirby)
Kirby *in* Richardson, Fauna Bor. Am., iv, p. 284, 1857, *Corixa.*
Kirby *in* Bethune's reprint, p. 139, *Corixa.*
Locality: "Canada."

1447. **Arctocorixa reticulata** Guer.
Guerin *in* Sagra, Hist. de Cuba, Ins., p. 423, 1857, *Corisa.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 497, 1914.
Localities: Fla. (West Indies.)

[**Arctocorixa scabra** Abbott MS]
Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.
Locality: Ga.

1447½. **Arctocorixa seriata** Abbott
Abbott, Ent. News, xxvii, p. 342, 1916.
Localities: Me., N. H., Mass., R. I., Conn.

1448. **Arctocorixa serrulata** (Uhl.)
Uhler, Trans. Md. Acad. Sci., i, p. 391, 1897, *Corixa.*
Champion, Biol. Centr. Am., Heter., ii, p. 381, 1901, *Corixa* (noticed).
?Smith, Cat. Ins. N. J., edn. 3, p. 169, 1910, *Corixa.*
Localities: Ariz., Calif. (Mexico.)

1449. **Arctocorixa signata** (Fieb.)
Fieber, Spec. Generis Corisa, p. 21, 1851, *Corisa.*
Abbott, Bul. Brookl. Ent. Soc., viii, p. 83, 1913.
Localities: Pa., Ill., Ga.

1450. **Arctocorixa stagnalis** (Leach)
Leach, Trans. Linn. Soc. Lond., xii, p. 16, 1818, *Corisa.*
Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, j. 42, pl. 4, fig. 21, 1901.
limitata (Fieber), Bul. Soc. Nat. Mosc., xxi, pt. 2, p. 528, 1848, *Corisa.*
Fieber, Spec. Generis Corisa, p. 35, pl. 2, No. 20, 1851, *Corisa.*
Fieber, Europ. Hemip., p. 95, 1860, *Corisa.*
B. White, Ent. Mo. Mag., x, p. 77, 1873, *Corixa.*
Puton, Synop. Heter. Fr., i, p. 229, 1879, *Corisa.*
Saunders, Heter. Brit. Isds., pp. 332, 336, pl. 22, fig. 4, 1892, *Corixa.*
Wallengren, Ent. Tidskr., x, pp. 142, 152, 1894.
Oshanin, Verz. Palae. Hemip., i, p. 984, 1908, *Corixa.*
Oshanin, Kat. Palae. Hemip., p. 92, 1912.
†*nigrolineata* (Thomson), Opusc. Ent., i, p. 36, 1869, *Corisa.*
thomsoni Puton, Cat. Hemip. Palae., edn. 3, p. 65, 1886, *Corixa.*
Localities: Pa. (Palaearctic.)

1451. **Arctocorixa stigmatica** (Fieb.)

Fieber, Spec. Generis Corisa, p. 36, 1851, *Corisa.*
Locality: "N. Am."

1452. **Arctocorixa striata** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Notonecta.*
Linnaeus, Fauna Suec., edn. 2, p. 244, No. 904, 1761, *Notonecta.*
De Geer, Mémoires, iii, p. 395, 1773, *Nepa* (part).
Fabricius, Spec. Ins., ii, p. 332, 1781, *Sigara* (part).
Schrank, Enum. Ins. Aust., p. 261, 1781, *Notonecta.*
Fabricius, Ent. Syst., iv, p. 60, 1794, *Sigara* (part).
Walckenaer, Fauna Paris., ii, p. 333, 1802, *Sigara* (part).
Fabricius, Syst. Rhyng., p. 104, 1803, *Sigara* (part).
Brullé, Hist. Nat. des Ins., ix, p. 251, 1835, *Corixa.*
Kirby *in* Richardson, Fauna Bor. Am., iv, p. 283, 1877, *Corixa.*
Spinola, Essai sur les Hémip., p. 57, 1837 (1840), *Corixa.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 87, 1840, *Corixa.*
Amyot and Serville, Hémip., p. 447, 1843, *Corisa.*
Fieber, Spec. Generis Corisa, p. 30, pl. 2, No. 11, 1851, *Corisa.*
Flor, Rhyn. Livl., i, p. 793, 1860, *Corisa.*
Fieber, Europ. Hemip., p. 97, 1860, *Corisa.*
Douglas and Scott, Brit. Hemip., p. 606, 1865, *Corisa.*
Thomson, Opusc. Ent., i, p. 34, 1869, *Corisa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876, *Corixa.*
Puton, Synop. Heter. Fr., i, p. 227, 1879, *Corixa.*
Reuter, Rev. Synon., p. 376, No. 355, 1888, *Corisa.*
Wallengren, Ent. Tidskr., xv, p. 150, 1894, *Corisa.*
Gillette and Baker, Hemip. Colo., p. 64, 1895, *Corisa.*
Localities: Neb., Colo., Brit. Am. (Palaearctic.)

1453. **Arctocorixa sutilis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 339, 1876; iii, p. 453, 1877, *Corixa.*
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332, *Corisa.*
Uhler, Proc. Ent. Soc. Wash., ii, p. 384, 1893, *Corisa.*
Localities: Colo., Utah, N. Mex., Mont., Brit. Am.

1454. **Arctocorixa tarsalis** (Fieb.)

Fieber, Spec. Generis Corisa, p. 19, 1851, *Corisa.*
Localities: Pa.

1455. **Arctocorixa trilineata** (Prov.)

Provancher, Nat. Can., iv, p. 108, 1872, *Corixa.*
trivittata Provancher, Pet. Faune Ent. Can., iii, p. 203, 1888, *Corixa* (unnecessary substitute for *trilineata*).
Locality: Quebec.

1456. **Arctocorixa tumida** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 454, 1877, *Corixa.*
Gillette and Baker, Hemip. Colo., p. 64, 1895, *Corisa.*
Locality: Colo.

1457. **Arctocorixa vulnerata** (Uhl.)

Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 284, 1861, *Corixa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 340, 1876; iv, p. 509, 1878, *Corisa.*
Localities: Ill., Mont., Wash., Ore.

1458. **Arctocorixa wallengreni** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 268, 1859, *Corixa.*
Locality: Calif.

1459. **Arctocorixa zimmermannii** (Fieb.)

Fieber, Spec. Generis Corisa, p. 21, pl. 1, No. 18, 1851, *Corisa.*
Localities: Pa., "Carolina."

Subgenus **Hesperocorixa** Kirk.
Haplotype *brimleyi* Kirk.

Kirkaldy, Can. Ent., xl, pp. 118, 120, 1908.

1460. **Arctocorixa brimleyi** Kirk.

Kirkaldy, Can. Ent., xl, p. 120, 1908.
Locality: N. C.

Genus **Palmacorixa** Abbott
Haplotype *gillettii* Abbott

Abbott, Ent. News, xxiii, p. 337, 1912.

1461. **Palmacorixa gillettii** Abbott

Abbott, Ent. News, xxiii, p. 337, pl. 18, 1912.
Locality: Colo.

1462. **Palmacorixa buenoi** Abbott

Abbott, Can. Ent., xlv, p. 113, 1913.
Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.
Localities: Mass., N. Y., D. C., Ga.

Genus **Corixa** Geoff.
Haplotype *striata* Geoff. = *geoffroyi* Leach

Geoffroy, Hist. Abreg. des Ins., i, p. 477, 1762 (*striata* of Geoff. only species).
Fourcroy, Ent. Paris., i, p. 221, 1785.
Olivier, Encyc. Méth., iv, p. 25, 1789.
Latreille, Précis, p. 88, 1797.
Lamarck, Syst. Anim. s. Vert., p. 297, 1801 (names *striata* Linn. type).
Latreille, Hist. Nat. Crust. Ins., iii, p. 255, 1902; xii, p. 287, 1804.
Latreille, Genera Crust. Ins., iii, p. 151, 1807.
Latreille, Consid. Génl., pp. 261, 434, 1910 (names *striata* Linn. type).
Lamarck, Hist. Nat. Anim. s. Vert., iii, p. 520, 1816.
Fallén, Hemip. Suec., Cimic., p. 181, 1829.
Laporte, Essai Classif. Syst. Hémip., p. 20, 1832 (names *striata* Linn. type).
Herrich-Schaeffer, Nomen. Ent., i, pp. 39, 63, 1835.
Burmeister, Handb. d. Ent., ii, p. 186, 1835.
Brullé, Hist. Nat. des Ins., ix, p. 249, 1835.
Blanchard, Hist. Nat. des Ins., Hémip., p. 87, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 119, 1840 (names *striata*
Amyot and Serville, Hémip., p. 445, 1843, *Corisa.* [Linn. type).

Spinola, Tavola Sinot., p. 49, 1850.
Fieber, Spec. Generis Corisa, p. 13, 1851, *Corisa.*
Flor, Rhyn. Livl., i, pp. 780, 783, 1860, *Corisa.*
Fieber, Europ. Hemip., pp. 31, 90, 1860, *Corisa.*
Kirkaldy, Entomologist, xxxi, p. 253, 1898.
Kirkaldy, Jl. Quekett Micros. Club, ser. 2, No. 48, p. 44, 1901.
Distant, Fauna Br. Ind., Rhyn., iii, p. 49, 1906 (cites *geoffroyi* Leach as type).
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 152, 1906.
Reuter, Of. Finska Vet. Soc. Forh., liv, Afd. A, No. 7, p. 75, 1912.
Oshanin, Kat. Palae. Hemip., p. 91, 1912.

Sigara Fabricius, Syst. Ent., p. 691, 1775 (haplotype *striata* Fabr.).
Macrocorisa Thomson, Opusc. Ent., i, p. 28, 1869 (type *geoffroyi* Leach).
B. White, Ent. Mo. Mag., x, p. 62, 1873, *Macrocorixa.*
Puton, Synop. Heter. Fr., i, p. 220, 1879.
Wallengren, Ent. Tidskr., xv, pp. 133, 134, 1894.
Oshanin, Verz. Palae. Hemip., i, p. 978, 1909.
Trichocorixa Kirkaldy, Can. Ent., xl, p. 118, 1908 (type *pygmaea* Fieb.).

1463. **Corixa gordita** Abbott
Abbott, Bul. Brookl. Ent. Soc., viii, p. 84, 1913.
Locality: Ga.

1464. **Corixa sellaris** Abbott
Abbott, Bul. Brookl. Ent. Soc., viii, p. 85, 1913.
Locality: Ga.

1465. **Corixa macroceps** Kirk.
Kirkaldy, Can. Ent., xl, p. 119, 1908, *Arctocorisa.*
Abbott, Bul. Brookl. Ent. Soc., viii, p. 86, 1913.
Locality: Ga.

1466. **Corixa minima** Abbott
Abbott, Bul. Brookl. Ent. Soc., viii, p. 86, 1913.
Locality: Ga.

1467. **Corixa verticalis** Fieb.
Fieber, Spec. Generis Corisa, p. 24, pl. 1, No. 22, 1851, *Corisa.*
Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.
Localities: Pa., Ga.

1468. **Corixa(?) pygmaea** Fieb.
Fieber, Spec. Generis Corisa, p. 24, pl. 2, No. 1, 1851, *Corisa.*
Kirkaldy, Can. Ent., xl, p. 118, 1908 (as type of *Trichocorixa*).
Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913.
Localities? (West Indies.)

1469. **Corixa burmeisterii** Fieb.
Fieber, Spec. Generis Corisa, p. 24, 1851, *Corisa.*
Abbott, Bul. Brookl. Ent. Soc., viii, p. 87, 1913 (mention).
Locality: "N. Am."

Species unknown.

[**Corixa annexa** Uhler MS]
Walker, Cat. Heter., viii, p. 199, 1873.
Kirkaldy, Entomologist, xxx, p. 259, 1897.
Locality: Canadian Northwest.

SUBORDER *HOMOPTERA* LATR.

Latreille, Consid. Génl., p. 262, 1810.
Mac Leay, Horae Ent., ii, p. 367, 1821 (as Order).
Mac Leay, Trans. Linn. Soc. Lond., xiv, p. 67, 1825 (as Order).
Latreille, Fam. Nat. Règne Animal, p. 426, 1825.
Kirby and Spence, Introd. to Ent., iv, p. 377, 1826.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 209, 1829.
Fallén, Hemip. Suec., Cimic., preface, 1829. (*Collirostres.*)
Westwood, Intr. Mod. Classif. Ins., i, p. 29; ii, p. 414, 1840 (as Order).
Blanchard, Hist. des Ins., Hémip., p. 163, 1840.
Amyot and Serville, Hémip., p. 455, 1843.
Stål, Stet. Ent. Zeit., xix, p. 233, 1858.
Siphonata Retzius, Genera Spec. Ins., p. v, 1783.
‡*Omoptera* Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.
Gulaerostria Zetterstedt, Ins. Lapp., column , 1840.
Flor, Rhyn. Livl., ii, p. 1, 1861.
Hypocephalocera Spinola, Tavola Sinot., p. 27, 1850.

SERIES *AUCHENORHYNCHA* DUM.

Duméril, Zool. Analyt., p. 269, 1806.
Amyot and Serville, Hémip., p. 456, 1843.
Flor, Rhyn. Livl., ii, p. 4, 1861.
Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 295, 1906 (Group).

Family CICADIDAE (Latr.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 257, 1802, *Cicadariae* (*Cicadae verae*).
Latreille, Hist. Nat. Crust. Ins., xii, p. 293, 1804, *Cicadariae* (*Cicadae verae*).
Latreille, Gen. Crust. Ins., iii, p. 152, 1807, *Cicadariae.*
Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Cicadida.*
Stephens, Cat. Brit. Ins., ii, p. 355, 1829, *Cicadiidae.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 420; Synop., p. 115, 1840.
Spinola, Tavola Sinot., pp. 27, 50, 1850, *Cicaditae.*
Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Cicadina.*
Packard, Guide to Study of Ins., p. 533, 1869, *Cicadariae.*
Sahlberg, Cicadariae, p. 65, 1871, *Cicadina.*
Fieber, Cat. Europ. Cicad., p. 1, 1872, *Cicadaea.*
Fieber, Cicad. d'Eur., i, pp. 40, 47, 1875, *Cicadaea.*
Distant, Biol. Centr. Am., Homop., i, p. 1, 1881.
Uhler, Stand. Nat. Hist., ii, p. 226, 1884.
Woodworth, Psyche, v. p. 67, 1888 (synopsis).
Ashmead, Ent. Am., iv, p. 140, 1888. (Key.)
Distant, Monog. Orient. Cicad., p. 1, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 208, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892.
Melichar, Cicad. Mit. Eur., p. 2, 1896.

Macgillivray, Can. Ent., xxxiii, p. 74, 1901. (Key.)
Distant, Fauna Brit. Ind., Rhyn., iii, p. 55, 1906.
Distant, Cat. Homop., Cicad., p. 1, 1906.
Kirkaldy, Haw. S. P. A. Exp. St. Bul., i, p. 295, 1906; iii, p. 9, 1907.
Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911
Oshanin, Kat. Palae. Hemip., p. 94, 1912.
Distant, Gen. Ins., fasc. 142, p. 1, 1912.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 21, 1915. (Keys.)
Manniferae Linnaeus, Syst. Nat., edn. 10, i, p. 436, 1758.
Germar, Mag. d. Ent., iv, p 95, 1821.
Tettigonides Fallén, Spec. Nova Hemip., disp. Meth., pp. 3, 13, 1814.
Stridulantes Latreille, Fam. Nat. Régne Anim., p. 426, 1825 (Tribe).
Germar, Silb. Rev. Ent., i, p. 174, 1833 (Stirps).
Burmeister, Handb. d. Ent., ii, p. 170, 1835, *Stridulantia.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 164, 1840, *Striduliens.*
Amyot and Serville, Hémip., p. 458, 1843.
Fieber, Gen. Hydroc., p. 10, 1851.
Stål, Hemip. Afr., iv, p. 1, 1866, *Stridulantia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Stridulantia.*
Hansen, Ent. Tidskr., xi, p. 63, 1890, *Stridulantia.* [(transl. of Hansen).
Kirkaldy, Entomol., xxxiii, pp. 116, 335, 1900; xxxv, p. 215, 1902
Chanteuses Latreille, *in* Cuvier, Régne Anim., edn. 2, v, p. 212, 1829. [*trices.*
Latreille, *in* Cuvier, Anim. Kingd., Lond. edn., iv, p. 172, 1836, *Canta-*

Subfamily **TIBICENINAE** Van D.

Van Duzee, Check List Hemip., p. 55, 1916.
Cicadides Amyot and Serville, Hémip., pp. liii, 468, 1843 (Groupe).
Ashmead, Ent. Am., iv, p. 140, 1888, *Cicadinae.*
Distant, Monog. Orient. Cicad., p. 3, 1889, *Cicadinae.*
Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 293, 1904, *Cicadinae.*
Distant, Fauna Brit. Ind., Rhyn., iii, p. 58, 1906, *Cicadinae.*
Distant, Cat. Homop., Cicadidae, pp. 1, 2, 1906, *Cicadinae.*
Distant, Gen. Ins., fasc. 142, p. 3, 1912, *Cicadinae.*
Oshanin, Kat. Palae. Hemip., p. 94, 1912, *Cicadinae.*
§*Tibicinae* Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.

TRIBE *TIBICENINI* Van. D.

Van Duzee, Check List Hemip., p. 55, 1915. [(Division.)
Cicadaria Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, pp. 329, 425, 1904.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 78, 1906. (Division.)
Distant, Cat. Homop., Cicadidae, p. 30, 1906. (Division.)
Distant, Gen. Ins., fasc. 142, p. 25, 1912. (Division.)

Genus **Tibicen** Latr.
Haplotype *plebeja* (Scop.)

Latreille, Fam. Nat. Régne Anim., p. 426, 1825 (no description, *plebeja* only
Germar, Silb. Rev. Ent., ii, p. 52, 1834. [species mentioned).
Burmeister, Handb. d. Ent., ii, pp. 179, 182, 1835 (as Subgenus).

Van Duzee, Can. Ent., xlvi, p. 387, 1914 (restricts *Cicada* to *orni* and its allies).
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.
Van Duzee, Check List Hemip., p. 55, 1916.
†*Cicada* Latreille, Consid. Génl., p. 434, 1810 (names *plebeja* pseudotype).
Germar, Mag. d. Ent., iv, p. 95, 1821.
Germar, Silb. Rev. Ent., ii, p. 56, 1834.
Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 614, 1861.
Stål, Hemip. Afr., iv, p. 6, 1866.
Distant, Biol. Centr. Am., Homop., i, p. 6, 1881.
Woodworth, Psyche, v, p. 67, 1888.
Ashmead, Ent. Am., iv, p. 141, 1888.
Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892.
Macgillivray, Can. Ent., xxxiii, p. 75, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, pp. 330, 428, 1904.
Distant, Cat. Homop., Cicadidae, p. 38, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 491, 1912 (names *tibicen*
Distant, Gen. Ins., fasc. 142, p. 30, 1912. [pseudotype).
†*Tettigonia* Fabricius, Syst. Ent., p. 678, 1775.
Thunberg, Charac. Gen. Ins., edn. 2, p. 32, 1791.
Fabricius, Ent. Syst., iv, p. 16, 1794.
Fabricius, Syst. Rhyng., p. 33, 1803 (indicates *tibicen* as type).
Leach *in* Brewster's Edinbg. Encyc., Am. reprint, ix, p. 124, 1830.
Leach *in* Brewster's Edinbg. Encyc., Am. edn., viii, p. 713, 1832.
Chremistica Stål, Of. Vet. Akad. Forh., xxvii, p. 714, 1870 (as Subgenus).
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 305, 1907.
Diceroprocta Stål, Of. Vet. Akad. Forh., xxvii, p. 714, 1870 (as Subgenus).
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 305, 1907.
Rihana Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 426, 1904. (*Orthotype*
Distant, Fauna Brit. Ind., Rhyn., iii, p. 78, 1906. [*ochracea* Walk.)
Distant, Cat. Homop., Cicadidae, p. 32, 1906.
Distant, Genera Ins., fasc. 142, p. 27, 1912.

1470. **Tibicen biconica** (Walk.)

Walker, List Homop., i, p. 120, 1850, *Cicada*.
Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.
Localities: Fla. (West Indies, Mexico.)

1471. **Tibicen townsendi** (Uhl.)

Uhler, Ent. News, xvi, p. 74, 1905, *Cicada*.
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 46, 1916, *Cicada*.
Localities: Texas, N. Mex., Ariz., Calif.

1471½. **Tibicen bifidus** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 47, 1916, *Cicada*.
Localities: Kans., Colo., Utah, Ariz.

1472. **Tibicen rudis** (Walk.)

Walker, List Homop., Suppl., p. 13, 1858, *Fidicina*.
Distant, Biol. Centr. Am., Homop., i, p. 8, pl. 2, fig. 20, 1881, *Cicada*.
Uhler, Trans. Md. Acad. Sci., i, p. 154, 1892, *Cicada*.
Localities: Ariz. (Mexico.)

1473. **Tibicen linnei** (Sm. & Grsb.)

Smith and Grossbeck, Ent. News, xviii, p. 127, 1907, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 10, 1915, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada.*
†*tibicen* Germar, Mag. d. Ent., iv, p. 95, 1821, *Cicada.*
Germar, Silb. Rev. Ent., ii, p. 52, note, 64, 1834, *Cicada.*
Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada.*
Walker, List Homop., i, p. 94, 1850, *Fidicina.*
Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 367, no. 73, 1856, *Cicada.*
Jaeger, Life of N. Am. Ins., p. 70, 1859, *Cicada.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 219, 1862, *Cicada.*
Stål, Of. Vet. Akad. Forh., xix, p. 480, 1862, *Cicada.*
Stål, Hemip. Fabr., ii, p. 6, 1869, *Cicada.*
Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada.*
Woodworth, Psyche, v, p. 68, 1888, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892, *Cicada.*
Maegillivray, Can. Ent., xxxiii, p. 82, 1901, *Cicada.*
Felt, N. Y., St Museum. Memoir 8, i, p. 237, pl. 46, fig. 1, 1905.
Distant, Cat. Homop., Cicadidae, p. 36, 1906, *Rihana.*
Davis and Joutel, Ent. News, xvii, p. 238, 1906, *Cicada.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Distant, Genera Ins., fasc. 142, p. 29, 1912, *Rihana.*
chloromera Walker, List Homop., i, p. 43, 1850, *Thopha.*
Localities: Mass., N. Y., Mich., Tenn., N. C., Ill., Kans.

1474. **Tibicen pruinosa** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 330, 1825; Compl. Writ., ii, p. 251, *Cicada.*
Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 218, 1862, *Cicada.*
Provancher, Pet. Faune Ent. Can., iii, p. 211, 1889, *Cicada.*
Davis and Joutel, Ent. News, xvii, p. 237, 1906, *Cicada.*
Smith and Grosbeck, Ent. News, xviii, p. 123, 1907, *Cicada.*
Davis, Ent. News, xxi, p. 457, 1910, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiii, pp. 9, 10, 1915, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada.*
§*bruneosa* Wild, Ann. Soc. Ent. Fr., ser. 2, x, Bul., p. xviii, 1852, *Cicada.*
†*canicularis* Provancher, Pet. Faune Ent. Can., iii, p. 211 (in key), 1889, *Cicada.*
Localities: Pa., Ind., Mo., Neb., Kans., Texas. [

a. var. **winnemanna** (Davis)

Davis, Bul. Brookl. Ent. Soc., viii, p. 3, 1912, *Cicada.*
Localities: Md., N. C.

b. var. **latifasciata** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada.*
Weiss, Ent. News, xxvii, p. 163, 1916, *Cicada.*
Localities: N. J., Pa., N. C., Texas.

1475. **Tibicen sayi** (Sm. & Grsb.)

Smith and Grossbeck, Ent. News, xviii, p. 124, 1907, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada.*

Davis, Ent. News, xxiii, p. 261, 1912, *Rihana.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada.*
Localities: Ont., N. Y., N. J., N. C., Ga., Fla., Ala., Ky., Miss., Ohio.

a. var. **australis** (Davis)
Davis, Ent. News, xxiii, p. 261, 1912, *Rihana.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Localities: Ga., Fla.

1476. **Tibicen (?) variegata** (Fabr.)

Fabricius, Ent. Syst., iv, p. 19, 1794, *Tettigonia.*
Fabricius, Syst. Rhyn., p. 37, 1803, *Tettigonia.*
Walker, List Homop., i, p. 120, 1850, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 149, 1892, *Cicada* (as synon.).
Smith and Grossbeck, Ent. News., xviii, pp. 118, 120, 1907, *Tibicina.*
Locality: "Carolina." (May be a *Tibicina.*)

1477. **Tibicen lyricen** (De G.)

De Geer, Mémoires, iii, p. 212, pl. 32, fig. 23, 1773, *Cicada.*
Smith and Grossbeck, Ent. News, xviii, p. 125, 1907, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada.*
Barber, Proc. Ent. Soc. Wash., xiv, p. 210, 1912, *Cicada* (eggs).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada.*
fulvula (Osborn), Ent. News, xviii, p. 322, 1906, *Cicada.*
Localities: Ont., R. I., N. Y., N. J., N. C., Fla., Ala., Ohio, Ind.

a. var. **engelhardti** (Davis).
Davis, Ent. News, xxi, p. 458, 1910, *Cicada.*
Davis, Ent. News, xxiii, p. 261, 1912, *Rihana.*
Localities: N. C., Ga.

1477½. **Tibicen figurata** (Walk.)

Walker, List Homop., Suppl., p. 19, 1858, *Fidicina.*
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada* (var. ? of *lyricen* or *simi-*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 43, 1916, *Cicada.* [*laris*).
Localities: Fla., Ala., Miss., La.

1478. **Tibicen similaris** (Sm. & Grsb.)

Smith and Grossbeck, Ent. News, xviii, p. 125, 1907, *Cicada.*
Davis, Ent. News, xxiii, p. 262, 1912, *Rihana.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Localities: Ga., Fla.

1479. **Tibicen canicularis** (Harr.)

Harris, Rept. Ins. Mass., p. 175, 1841, *Cicada.*
Harris, Treat. Ins. Inj. Veg., edn. 2, p. 190, 1852, *Cicada.*
Emmons, Nat. Hist. N. Y., Ins., p. 152, pl. 9, fig. 5, 1854, *Cicada.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 217, 1862, *Cicada.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada.*
Van Duzee, Can. Ent., xxi, p. 6, 1889, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 151, 1892, *Cicada.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1894, *Cicada.*

Davis and Joutel, Ent. News, xvii, p. 237, 1906, *Cicada.*
Smith and Grossbeck, Ent. News, xviii, p. 126, 1907, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada.* [*Cicada* (part).
†*pruinosa* (Uhler) *in* Harris Treat. Ins. Inj. Veg., edn. 3, p. 219, 1862,
Localities: Quebec, Ont., Nov. Scot., Mass., N. Y., N. J., D. C., Wisc., Ia., Colo.

1480. **Tibicen aurifera** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 332, 1825; Compl. Writ., ii, p. 252,
Woodworth, Psyche, v, p. 68, 1888, *Cicada* (var. of *marginata*). [*Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada.*
Kirkaldy, Entomologist, xxxiii, p. 242, 1900, *Cicada* (referred to *marginata*).
Macgillivray, Can. Ent., xxxiii, p. 80, 1901, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 44, 1916, *Cicada* (recognized).
Locality: Kans.

1481. **Tibicen davisi** (Sm. & Grsb.)

Smith and Grossbeck, Ent. News, xviii, p. 127, 1907, *Cicada.*
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Cicada.*
Davis, Ent. News, xxiii, p. 261, 1912, *Rihana.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Localities: N. Y., Ga., Fla.

1482. **Tibicen transversa** (Walk.)

Walker, Ins. Saund., Homop., p. 15, 1858, *Cicada.*
Distant, Biol. Centr. Am. Homop., i, p. 7, pl. 2, fig. 1, 1881, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 155, 1892, *Cicada.*
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Cicada.*
alacris (Stål), Stet. Ent. Zeit., xxv, p. 62, 1864, *Cicada.*
Localities: Texas, Ariz. (Mexico, Vera Cruz.)

1482½. **Tibicen eugraphica** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 52, 1916, *Cicada.*
Localities: Texas, N. Mex., Ariz.

1483. **Tibicen vitripennis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., ii, p. 236, 1830; Compl. Writ., ii, p. 372, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada.*
Macgillivray, Can. Ent., xxxiii, p. 83, 1901, *Cicada.*
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 58, 1916, *Cicada.*
§*albipennis* Woodworth, Psyche, v, p. 68, 1888, *Cicada.*
Localities: Fla., La., Ind., Okla., Texas, Ariz.

a. var. **nigriventris** (Walk.)
Walker, List Homop., Suppl., p. 21, 1858, *Cicada.*
Distant, Biol. Centr. Am., Homop., i, p. 9, pl. 2, fig. 6, 1881, *Cicada.*
Locality: Mexico (not yet found in our territory).

1484. **Tibicen auletes** (Germ.)

Germar, Silb. Rev. Ent., ii, p. 65, 1834, *Cicada.*
Harris, Rept. Ins. Mass., p. 176, 1841, *Cicada.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 218, 1862, *Cicada.*

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 2, 1915, *Cicada*.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada*.
Weiss, Ent. News, xxvii, p. 162, 1916.

?grossa (Fabricius), Syst. Ent., p. 678, 1775, *Tettigonia*.
Fabricius, Spec. Ins., ii, p. 318, 1781, *Tettigonia*.
Fabricius, Mant. Ins., ii, p. 265, 1787, *Tettigonia*.
Olivier, Encyc. Méth., v, p. 747, 1790, *Cicada*.
Fabricius, Syst. Rhyng., p. 33, 1803, *Tettigonia*.
Uhler, Ent. News, xvi, p. 75, 1905, *Cicada*.
Distant, Genera Ins., fasc. 142, p. 29, 1912, *Rihana*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada*.
Van Duzee, Check List Hemip., p. 55, 1916.

?sonora (Walker), List Homop., i, p. 105, 1850, *Cicada*.
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 6, 1915, *Cicada*.

?literata (Walker), List Homop., i, p. 91, 1850, *Fidicina*.
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 8, 1915, *Cicada*. [1905, *Cicada*.

†*marginata* (Howard), Insect Book, p. 232 (*emarginata*), pl. 28, fig. 19.
Smith and Grossbeck, Ent. News, xviii, pl. 3, fig. 1, 1907, *Cicada* [genitalia.
Localities: Mass., Conn., N. Y., N. J., Md., D. C., N. C., S. C., Ga., Fla., Ala., La., Miss., Mich., Mo., Kans.

1485. **Tibicen marginalis** (Walk.)

Walker, List Homop., iv, p. 1128, 1852, *Cicada* (n.n. for *marginata* Say).
Van Duzee, Check List Hemip., p. 55, 1916. [ii, p. 251, *Cicada*.

‖*marginata* (Say), Jl. Acad. Nat. Sci. Phila., iv, p. 330, 1825; Compl. Writ., Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada*.
Woodworth, Psyche, v, p. 68, 1888, *Cicada*.
Uhler, Trans. Md. Acad. Sci., i, p. 150, 1892, *Cicada*.
Gillette and Baker, Hemip. Colo., p. 64, 1895, *Cicada*.
Macgillivray, Can. Ent., xxxiii, p. 81, 1901, *Cicada*.
Smith and Grossbeck, Ent. News, xviii, p. 128, 1907, *Cicada*.
Smith, Cat. Ins. N. J., edn. 3, p. 89, 1910, *Cicada*.
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 4, 1915, *Cicada*.
Localities: Fla., Ohio, Ky., Kans., Texas.

1485½. **Tibicen cultriformis** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 239, 1915, *Cicada*.
Locality: Ariz.

1486. **Tibicen dealbata** (Davis)

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 162, 1915, *Cicada* (as var. of *marginata*).
Localities: Kans., Colo.

1487. **Tibicen resh** (Hald.)

Haldemann, Stansb. Salt Lake Exped., p. 369, pl. 9, fig. 17, 1852, *Cicada*.
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 5, 1915, *Cicada*.

robertsoni (Fitch), Trans. N. Y. Ag. Soc., xiv (1854), p. 745, 1855, *Cicada*.
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 164, 1915, *Cicada* (synon. of *resh*).
Localities: Miss., La., Okla., Texas, Utah.

1488. **Tibicen resonans** (Walk.)

Walker, List Homop., i, p. 106, 1850, *Cicada*.

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 6, 1915, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 4, 1915, *Cicada.*
Localities: N. C., Ga., Fla., Ala., Kans.

1489. **Tibicen olympusa** (Walk.)
Walker, List Homop., i, p. 101, 1850, *Fidicina.*
Stål, Of. Vet. Akad. Forh., xix, p. 484, 1862, *Cicada.*
Distant, Cat. Homop., Cicadidae, p. 36, 1906, *Rihana.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 56, 1916, *Cicada.*
milvus (Walker), Ins. Saund., Homop., p. 11, 1858, *Cicada.*
sordidata (Uhler), Trans. Md. Acad. Sci., i, p. 184, 1909, *Cicada.*
Locality: Fla.

1489½. **Tibicen texana** (Davis)
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 54, 1916, *Cicada.*
Locality: Texas.

1490. **Tibicen superba** (Fitch)
Fitch, Trans. N. Y. St. Ag. Soc., xiv (1854), p. 745, 1855, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 152, 1892, *Cicada.*
Localities: Ark., Okla., N. Mex., Texas.

1491. **Tibicen erratica** (Osb.)
Osborn, Ohio Nat., vi, p. 497, 1906, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 59, 1916, *Cicada.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Cicada.*
Localities: Miss., La., Ark.

1492. **Tibicen azteca** (Kirk.)
Kirkaldy, Can. Ent., xli, p. 391, 1910, *Cicada.*
‖*pallida* (Distant), Biol. Centr. Am., Homop., i, p. 8, pl. 2, fig. 7, 1881, [*Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 153, 1892, *Cicada.*
Localities: Texas. (Mexico.)

1493. **Tibicen delicata** (Osb.)
Osborn, Ohio Nat., vi, p. 498, 1906, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 60, 1916, *Cicada.*
Localities: La., Texas.

1493½. **Tibicen castaneus** (Davis)
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 49, 1916, *Cicada.*
Locality: Ariz.

1494. **Tibicen reperta** (Uhl.)
(= next species.)

1495. **Tibicen viridifascia** (Walk.)
Walker, List Homop., i, p. 121, 1850, *Cicada.*
Distant, Cat. Homop., Cicadidae, p. 40, 1906, *Cicada.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909, *Cicada.*
Distant, Genera Ins., fasc., 142, p. 31, 1912, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 58, 1916, *Cicada.*
reperta (Uhler), Trans. Md. Acad. Sci., i, p. 177, 1892, *Cicada.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Cicada.*
Van Duzee, Check List Hemip., p. 55, 1916.
Localities: N. C., Fla., La.

1496. **Tibicen montezuma** (Dist.)

Distant, Biol. Centr. Am., Homop., i, p. 8, 1881, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 154, 1892, *Cicada.*
Townsend, Can. Ent., xxiv, p. 195, 1892, *Cicada.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 28, 1915.
rudis (Distant), Biol. Centr. Am., Homop., i, pl. 2, fig. 8, 1881, *Cicada.*
Localities: Texas, N. Mex., Ariz., Calif.

1497. **Tibicen cinctifera** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 156, 1892, *Cicada.*
Distant, Genera Ins., fasc. 142, p. 32, pl. 4, fig. 25, 1912, *Cicada.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 28, 1915.
Localities: N. Mex., Calif.

1498. **Tibicen dorsata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 331, 1825; Compl. Writ., ii, p. 252, *Cicada.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada*
Uhler, Trans. Md. Acad. Sci., i, p. 152, 1892, *Cicada.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Cicada.*
Davis, Jl. N. Y. Ent. Soc., xxiii, pp. 161, 164, 1915, *Cicada.*
varia (Walker), List Homop., i, p. 42, 1850, *Thopha.*
crassa (Walker), Ins. Saund., Homop., p. 10, 1858, *Fidicina.*
Localities: Mo., Ia., Neb., Kans., Ark., N. Mex., Texas, Colo.

[**Tibicen ochreoptera** Uhl. MS.]

Townsend, Can. Ent., xxiv, p. 195, 1892, *Cicada* (may be *townsendi* Uhl.).

Genus **Cacama** Dist.
Orthotype *maura* Dist.

Distant, Ann. Mag. Nat. Hist., ser. 7, xiv, p. 429, 1904.
Distant, Genera Ins., fasc. 142, p. 33, 1912.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.

1499. **Cacama valvata** (Uhl.)

Uhler, Ent. Am., iv, p. 84, 1888, *Proarna.*
Gillette and Baker, Hemip. Colo., p. 64, 1895, *Cicada.*
Distant, Genera Ins., fasc. 158, p. 16, 1914, *Proarna.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 23, 1915.
Localities: Colo., Ariz.

1500. **Cacama crepitans** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914, *Proarna.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 28, 1915.
Locality: Calif.

Subfamily CICADINAE Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 24, 1915.
Van Duzee, Check List Hemip., p. 56, 1916.
Gaeaninae Distant, Ann. Mag. Nat. Hist., ser. 7, xv, 304, 1905.
Distant, Cat. Homop., Cicadidae, pp. 1, 72, 1906.
Horvath, Ann. Mus. Natl. Hung., x, p. 602, 1912.
Distant, Genera Ins., fasc. 158, p. 1, 1914.

TRIBE *CICADINI* Van D.

Van Duzee, Check List Hemip., p. 56, 1916.

Cicadatraria Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 304, 1905.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 122, 1906. [(Division.)
Distant, Cat. Homop., Cicadidae, p. 72, 1906.
Distant, Genera Ins., fasc. 158, p. 1, 1914.

Genus **Cicada** Linn.
Logotype *orni* Linn.

Linnaeus, Syst. Nat., edn. 10, p. 434, 1758.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2092, 1789.
Geoffroy, Hist. Abrég. des Ins., i, pp. 412, 429, 1762.
Scopoli, Ent. Carn., p. 112, 1763.
Brunnich, Entomolog., p. 58, 1764.
De Geer, Mémoires, iii, p. 158, 1773.
Goeze, Ent. Beytr., ii, p. 124, 1778.
Retzius, Gen. et Spec. Ins., p. 79, 1783.
Fourcroy, Ent. Paris., i, pp. 184, 193, 1785.
Lamarck, Syst. Anim. sans Vert., p. 292, 1801 (names *orni* Linn. type).
Van Duzee, Can. Ent., xlvi, p. 387, 1914.
Van Duzee, Check List Hemip., p. 56, 1916.

Tettigonia Fabricius, Syst. Ent., p. 678, 1775.
Thunberg, Charac. genera Ins., edn. 2, p. 32, 1791.
Fabricius, Syst. Rhyng., p. 33, 1803.

Tettigia Kolenati, Melet. Ent., vii, p. 6, 1857 (type *orni* Linn.).
Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 617, 1861.
Stål, Hemip. Afr., iv, p. 23, 1866.
Fieber, Cicad. d'Eur., i, p. 50, 1875; ii, p. 15, 1876.
Mayr, Tabellen, i, p. 15, 1884.
Uhler, Ent. Am., iv, p. 21, 1888.
Melichar, Cicad. Mitt. Eur., p. 3, 1896.
Froggat, Proc. Linn. Soc. N. S. Wales, xxix, p. 593, 1904.
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 305, 306, 1905.
Distant, Cat. Homop., Cicadidae, p. 74, 1906.
Distant, Genera Ins., fasc. 158, p. 3, 1914.

1501. **Cicada hieroglyphica** Say

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 235, 1830; Compl. Writ., ii, p. 371.
Harris, Rept. Ins. Mass., p. 176, 1841.
Distant, Biol. Centr. Am., Homop., i, p. 11, pl. 3, fig. 2, 1881, *Tettigia*.
Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Tettigia*.
Uhler, Ent. Am., iv, p. 22, 1888, *Tettigia*.
Woodworth, Psyche, v, p. 68, 1888, *Tettigia*.
Maegillivray, Can. Ent., xxxiii, p. 83, 1901, *Tettigia*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 88, 1910, *Tettigia*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915, *Tettigia*.
Davis, Jl. N. Y. Ent. Soc., p. 60, 1916.
Van Duzee, Check List Hemip., p. 56, 1916.

charaeterea Germar, Thon, Ent. Archiv., ii, p. 40, 1830.
Localities: N. J., Pa., N. C., Ga., Fla., Miss., La., Texas.

a. var. **johannis** Walk.
Walker, List Homop., i, p. 149, 1850.
Stål, Of. Vet. Akad. Forh., xix, p. 484, 1862, *Tettigia.*
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 62, 1916.
sexguttata Walker, List Homop., i, p. 154, 1850.
Localities: N. C., Fla.

1501½. **Cicada chisos** Davis
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 62, pl. 6, fig. 7, 1916.
Locality: Texas.

TRIBE *FIDICININI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 310, 1905. (Div. *Fidicinaria.*)
Distant, Cat. Homop., Cicadidae, p. 84, 1906. (Div. *Fidicinaria.*)
Distant, Genera Ins., fasc. 158, p. 13, 1914. (Div. *Fidicinaria.*)
Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Proarna** Stål
Logotype *hilaris* (Germ.)

Stål, Stet. Ent. Zeit., xxv, p. 61, 1864.
Stål, Hemip. Afr., iv, p. 7, 1866.
Distant, Biol. Centr. Am. Homop., i, p. 11, 1881.
Woodworth, Psyche, v, pp. 67, 68, 1888.
Ashmead, Ent. Am., iv, p. 141, 1888 (§*Proarna*).
Macgillivray, Can. Ent., xxxiii, pp. 75, 78, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 310, 311, 1905 (names *hilaris*
Distant, Cat. Homop., Cicadidae, pp. 84, 85, 1906. [type).
Distant, Genera Ins., fasc. 158, p. 14, 1914.

1502. **Proarna championi** Dist.
Distant, Biol. Centr. Am., Homop., i, p. 12, pl. 2, fig. 14, 1881.
Uhler, Ent. Am., iv, p. 84, 1888.
Woodworth, Psyche, v, p. 68, 1888.
Macgillivray, Can. Ent., xxxiii, p. 79, 1901.
Localities: Texas. (Mexico.)

1503. **Proarna venosa** (Uhl.)
Uhler, Ent. Am., iv, p. 82, 1888, *Prunasis.*
Macgillivray, Can. Ent., xxxiii, p. 77, 1901, *Prunasis.*
Distant, Cat. Homop., Cicadidae, p. 152, 1906, *Prunasis.*
Distant, Ann. Mag. Nat. Hist., ser. 8, viii, p. 134, 1911.
Distant, Genera Ins., fasc. 158, p. 16, 1914.
Localities: Texas, N. Mex.

Genus **Pacarina** Dist.
Orthotype *signifera* (Walk.)
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 314, 1905.
Distant, Cat. Homop., Cicadidae, pp. 85, 89, 1906.
Distant, Genera Ins., fasc. 158, p. 17, 1914.

1504. **Pacarina signifera** (Walk.)
Walker, List Homop., Suppl., p. 22, 1858, *Proarna.*
Distant, Biol. Centr. Am., Homop., i, p. 13, 1881, *Proarna;* p. 142, 1905.

Distant, Cat. Homop., Cicadidae, p. 89, 1906.
Distant, Genera Ins., fasc. 158, p. 17, 1914.
Localities: Texas. (Central America.)

Genus **Fidicina** Am. & Serv.
Logotype *mannifera* (Fabr.)

Amyot and Serville, Hémip., p. 472, 1843.
Stål, Rio Jan. Hemip., ii, p. 18, 1858.
Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 614, 1861.
Stål, Hemip. Afr., iv, p. 7, 1866.
Distant, Biol. Centr. Am., Homop., i, p. 16, 1881.
Uhler, Ent. Am., iv, p. 21, 1888.
Ashmead, Ent. Am., iv, p. 141, 1888.
Macgillivray, Can. Ent., xxxiii, pp. 75, 79, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 315, 1905 (names *mannifera* type).
Distant, Cat. Homop., Cicadidae, p. 91, 1906.
Distant, Genera Ins., fasc. 158, p. 18, 1914.

1505. **Fidicina pronoe** (Walk.)

Walker, List Homop., i, p. 144, 1850, *Cicada.*
Distant, Biol. Centr. Am., Homop., i, p. 16, pl. 1, fig. 6, 1881.
Uhler, Trans. Md. Acad. Sci., i, p. 148, 1892; ii, p. 2, 1903.
vinula Stål, Of. Vet. Akad. Forh., xi, p. 242, 1854.
compacta (Walker), Ins. Saund., Homop., p. 14, 1858, *Cicada.*
Localities: Texas. (Neotropical.)

TRIBE *ZAMMARINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 380, 1905. (Div. *Zammararia.*)
Distant, Cat. Homop., Cicadidae, p. 96, 1906.
Distant, Genera Ins., fasc. 158, p. 22, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 24, 1915.

Genus **Odopoea** Stål
Logotype *dilatata* (Fabr.)

Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 616, 1861.
Stål, Hemip. Afr., iv, p. i, 1866.
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 380, 1905 (names *dilatata* type).
Distant, Cat. Homop., Cicadidae, p. 96, 1906.
Distant, Genera Ins., fasc. 158, p. 23, 1914.

1506. **Odopoea funesta** (Walk.)

Walker, Ins. Saund., Homop., p. 2, 1858, *Zammara.*
Distant, Cat. Homop., Cicadidae, p. 97, 1906.
Localities: "N. Am." (West Indies.)
(Woodworth, Psyche, v, 68, records *Zammara smaragdina* Walk. from San Diego, Calif., on strength of specimen in Museum Comp. Zool. at Cambridge. The label "San Diego" must, however, have referred to San Diego, Mexico.)

Subfamily TIBICININAE (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 304, 1905.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 154, 1906.

Distant, Cat. Homop., Cicadidae, pp. 1, 107, 1906.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 23, 24, 1916.
Van Duzee, Check List Hemip., p. 56, 1916.

TRIBE *HYANTIINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 478, 1905. (Div. *Hyantiaria.*)
Distant, Cat. Homop., Cicadidae, p. 107, 1906. (Div. *Hyantiaria.*)
Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Queseda** Dist.
Orthotype *gigas* (Oliv.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 478, 1905.
Distant, Cat. Homop., Cicadidae, p. 108, 1906.

1507. **Queseda gigas** (Oliv.)

Olivier, Encyc. Méth., v, p. 750, pl. 3, fig. 4, 1790, *Cicada.*
Distant, Biol. Centr. Am., Homop., i, p. 14, pl. 1, fig. 9, 1881, *Tympanoterpes.*
Karsch, Berl. Ent. Zeit., xxxv, p. 107, pl. 4, fig. 12, 1890, *Tympanoterpes.*
Uhler, Trans. Md. Acad. Sci., i, p. 147, 1892, *Tympanoterpes.*
Macgillivray, Can. Ent., xxxiii, p. 79, 1901, *Tympanoterpes.*
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 479, 1905 (as type of *Queseda*).
triupsilon (Walker), List Homop., i, p. 103, 1850, *Cicada.*
sonans (Walker), List Homop., i, p. 104, 1850, *Cicada.*
consonans (Walker), List Homop., i, p. 106, 1850, *Cicada.*
†*grossa* Stål, Rio Jan. Hemip., ii, p. 19, 1858, *Cicada.*
sibilatrix (Berg), Hemip. Argent., p. 210, 1879, *Tympanoterpes.*
Localities: Texas. (Neotropical.)

TRIBE *TETTIGADESINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 479, 1905. (Div. *Tettigadesaria.*)
Distant, Cat. Homop., Cicadidae, p. 109, 1906. (Div. *Tettigadesaria.*)
Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Tettigades** Am. & Serv.
Haplotype *chilensis* A. & S.

Amyot and Serville, Hémip., p. 469, 1843.
Stål, Hemip. Afr., iv, p. 2, 1866.
Distant, Biol. Centr. Am., Homop., i, p. 5, 1881.
Ashmead, Ent. Am., iv, p. 141, 1888.
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 481, 1905.
Distant, Cat. Homop., Cicadidae, pp. 109, 110, 1906.

1508. **Tettigades mexicana** Dist.

Distant, Biol. Centr. Am., Homop., i, p. 6, pl. 2, fig. 9, 1881.
Uhler, Trans. Md. Acad. Sci., i, p. 167, 1892.
Localities: Ariz. (Mexico.)

TRIBE *CARINETINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 483, 1905. (Div. *Carinetaria.*)
Distant, Fauna Brit. Ind., Rhyn., iii, p. 160, 1906. (Div. *Carinetaria.*)
Distant, Cat. Homop., Cicadidae, p. 116, 1906. (Div. *Carinetaria.*)
Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Herrera** Dist.
Orthotype *marginella* (Walk.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xv, pp. 484, 486, 1905.
Distant, Cat. Homop., Cicadidae, p. 121, 1906.

1509. **Herrera marginella** (Walk.)

Walker, List Homop., Suppl., p. 21, 1858, *Cicada.*
Distant, Biol. Centr. Am., Homop., i, p. 21, pl. 2, fig. 16, 1883, *Carineta.*
Uhler, Trans. Md. Acad. Sci., i, p. 166, 1892, *Carineta.*
Distant, Ann. Mag. Nat. Hist., ser. 7, xv, p. 486, 1905 (as type of *Herrera.*)
Distant, Cat. Homop., Cicadidae, p. 121, 1906.
ancilla (Stål), Stet. Ent. Zeit., xxv, p. 57, 1864, *Carineta.*
Localities: Ariz. (Neotropical.)

TRIBE *TIBICININI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 22, 1905. (Div. *Tibicinaria.*)
Distant, Fauna Brit. Ind., Rhyn., iii, p. 162, 1906. (Div. *Tibicinaria.*)
Distant, Cat. Homop., Cicadidae, p. 123, 1906. (Div. *Tibicinaria.*)
Van Duzee, Check List Hemip., p. 56, 1916.

Genus **Tibicina** Kol.
Logotype *haematodes* (Scop.)

Kolenati, Melet. Ent., vii, p. 16, 1857.
Fieber, Cicad. d'Eur., ii, p. 20, 1876.
Mayr, Tabellen, i, p. 15, 1884.
Melichar, Cicad. Mitt. Eur., p. 5, 1896.
Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 22, 1905 (names *haematodes* Scop
Distant, Cat. Homop., Cicadidae, p. 123, 1906. [type)
Oshanin, Kat. Palae. Hemip., p. 95, 1912.
Van Duzee, Check List Hemip., p. 56, 1916.
†*Tettigonia* Fallén, Hemip. Suec., Cicad., p. 79, 1826 (for *haematodes*).
†*Tibicen* Latreille, *in* Cuvier, Règne Anim., edn. 2, v, p. 215, note, 1829.
Latreille, *in* Cuvier Anim. Kingd., Lond. edn., iv, p. 174, 1836.
Amyot and Serville, Hémip., p. 482, 1843 (names *sanguinea* Fabr. type).
Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 617, 1861.
Stål, Hemip. Afr., iv, pp. 8, 25, 1866.
Distant, Biol. Centr. Am., Homop., i, p. 18, 1883.
Woodworth, Psyche, v, p. 67, 1888.
Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892.
Macgillivray, Can. Ent., xxxiii, p. 74, 1901.
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 307, 1907.
Oshanin, Verz. Palae. Hemip., ii, p. 7, 1908.

1510. **Tibicina septendecim** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 436, 1758; edn. 12, ii, p. 708, 1767, *Cicada.*
Fabricius, Syst. Ent., p. 679, 1775, *Tettigonia.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2099, 1788, *Cicada.*
Olivier, Encyc. Méth., v, p. 749, 1790, *Cicada.*
Fabricius, Ent. Syst., iv, p. 19, 1794, *Tettigonia.*
Fabricius, Syst. Rhyng., p. 36, 1803, *Tettigonia.*
Germar, Thon, Ent. Archiv., ii, p. 4, 1830, *Cicada.*

Germar, Silb. Rev. Ent., ii, p. 64, 1834, *Cicada*.
Blanchard, Hist. des Ins., Hémip., p. 166, 1840, *Cicada*.
Harris, Rept. Ins. Mass., p. 167, 1841, *Cicada*.
Harris, Treat. Ins. Inj. Veg., edn. 2, p. 180, 1852, *Cicada*.
Emmons, Nat. Hist. N. Y., Ins., p. 150, pl. 9, fig. 3, 1854, *Cicada*.
Jager, Life of N. Am. Ins., p. 64, 1859, *Cicada* (annual appearance).
Stål, Ann. Soc. Ent. Fr., ser. 4, i, p. 618, 1861, *Tibicen*.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 206, 1862, *Cicada*.
Riley, 1st Mo. Rept., p. 18, 1868, *Cicada*.
Stål, Hemip. Fabr., ii, p. 116, 1869, *Tibicen*.
Uhler, Stand. Nat. Hist., ii, p. 227, 1884, *Cicada*.
Lintner, 2d Rept. N. Y. St. Ent., p. 167, 1885, *Cicada*.
Riley, Rept. U. S. Dept. Agr. for 1885, p. 233, *Cicada*.
Woodworth, Psyche, v, p. 68, 1888, *Tibicen*.
Provancher, Pet. Faune Ent. Can., iii, p. 212, 1889, *Cicada*.
Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892, *Tibicen*.
Marlatt, U. S. Dept. Ag., Div. Ent., Bul. n. s. 14, 1898, *Cicada*.
Felt, N. Y. St. Museum Memoir 8, i, p. 231, pl. 46, fig. 2, 1905, *Tibicen*.
Distant, Cat. Homop. Cicadidae, p. 125, 1906.
Marlatt, U. S. Dept. Agr., Div. Ent., Bul. 71, 1907, *Cicada*.
Smith, Cat. Ins. N. J., edn. 3, p. 88, 1910, *Tibicen*.
costalis (Fabricius), Ent. Syst., Suppl., p. 516, 1798, *Tettigonia*.
Coquebert, Illust. Icon. Ins., i, p. 34, pl. 9, fig. 2, 1799, *Tettigonia*.
Stål, Hemip. Fabr., ii, p. 116, 1869, *Tibicen*.

race **tredecim** (Riley)
Riley, 1st Mo. Rept., p. 19, 1868, *Cicada*.

a. var. **cassinii** (Fisher)
Fisher, Proc. Acad. Nat. Sci. Phila., v, p. 272, 1851, *Cicada* (as form).
Riley, 1st Mo., Rept., p. 21, 1868, *Cicada*.
Localities: Vt., Mass., R. I., Conn., N. Y., N. J., Pa., Md., Del., D. C., Va., N. C., S. C., Ga., Ala., Ohio, Mich, Ill., Ind., Ky., Tenn., Miss., La., Ark., Kans., Mo., Okla.

Genus **Okanagana** Dist.
Orthotype *rimosa* (Say)

Distant Ann. Mag. Nat. Hist., ser. 7, xvi, pp. 23, 190, 1905.
Distant, Cat. Homop., Cicadidae, p. 126, 1906.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 25, 1915. (Key.)

1511. **Okanagana cruentifera** (Uhl.)
Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen*.
Gillette and Baker, Hemip. Colo., p. 65, 1895, *Tibicen*.
Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina*.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 25, 1915.
Localities: Colo., Nev., Calif.

1512. **Okanagana ornata** Van D.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 33, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Locality: Calif.

1512½. **Okanagana rotundifrons** Davis
Davis, Jl. N. Y. Ent. Soc., xxiv, p. 235, pl. 2, fig. 2, 1916.
Locality: Calif.

1513. **Okanagana arctostaphylae** Van D.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 34, 1915.
Locality: Calif.

1514. **Okanagana rubrovenosa** Davis
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 11, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 35, 1915.
Locality: Calif.

1515. **Okanagana tristis** Van D.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 35, 1915.
Locality: Calif.

1516. **Okanagana mariposa** Davis
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 12, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 36, 1915.
Locality: Calif.

1517. **Okanagana hirsuta** Davis
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 13, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 43, 1915.
Locality: Calif.

1518. **Okanagana rimosa** (Say)
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 235, 1830; Compl. Writ., ii, p. 372, *Cicada.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876, *Cicada.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332, *Cicada.*
Provancher, Pet. Faune Ent. Can., iii, p. 214, 1889, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 160, 1892, *Tibicen.*
Osborn, Proc. Ia. Acad. Sci., iii, p. 201, 1895, *Tibicen.*
Distant, Cat. Homop., Cicadidae, p. 126, 1906.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 36, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
canadensis (Provancher), Pet. Faune Ent. Can., iii, p. 213, 1889, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 165, 1892, *Tibicen.*
Localities: Quebec, Ia., Colo., Utah, Nev., Calif., Br. Col., Vanc. Isd.

1519. **Okanagana canescens** Van D.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 37, 1915.
Locality: Calif

1520. **Okanagana occidentalis** (Walk.)
Walker *in* Lord's Nat. in Vanc. Isd., ii, p. 339, 1866, *Cicada.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 44, 1915.
Localities: Oregon, Vanc. Isd.

1521. **Okanagana schaefferi** Davis
Davis, Jl. N. Y. Ent. Soc., xxiii, p. 19, 1915.
Locality: Utah.

1522. **Okanagana vanduzeei** Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 165, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 37, 1915. [jectural).
†*noveboracensis* Cooke, Inj. Ins. Orchard & Viny., p. 74, 1883, *Cicada* (con-
Localities: Calif., Wash.

a. var. **consobrina** Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 165, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 38, 1915.
Locality: Calif.

1523. **Okanagana noveboracensis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 152, pl. 9, fig. 6, 1854, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen* (as var. of *rimosa*).
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Cicada.*
Osborn, Proc. Ia. Acad. Sci., iii, p. 202, 1895, *Tibicen.*
Smith and Grossbeck, Ent. News, xviii, p. 129, 1907, *Tibicen.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 38, 1915.
†*rimosa?* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 186, 1895, *Tibicen.*
Localities: Ont., N. Y., Pa., Ia.

1524. **Okanagana vandykei** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 26, 38, 1915.
Locality: Calif.

1525. **Okanagana californica** Dist.

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 46, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 39, 1915.
Locality: Calif.

1526. **Okanagana striatipes** (Hald.)

Haldeman, Stansbury's Exped. Salt Lake, p. 369, pl. 9, fig. 2, 1852, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 39, 1915.
Localities: Utah, Calif., Ore.

1527. **Okanagana triangulata** Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 14, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.
Locality: Calif.

1528. **Okanagana mercedita** Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 16, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.
Locality: Calif.

1529. **Okanagana synodica** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 334, 1825; Compl. Writ., ii, p. 253, *Cicada.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 341, 1876; iii, p. 455, 1877, *Cicada.*
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1332, *Cicada.*

Woodworth, Psyche, v, p. 68, 1888, *Tibicen.*
Gillette and Baker, Hemip. Colo., p. 64, 1895, *Tibicen.*
Macgillivray, Can. Ent., xxxiii, p. 78, 1901, *Tibicen.*
Distant, Cat. Homop., Cicadidae, p. 126, 1906.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 40, 1915.
Localities: Colo., N. Mex.

1530. **Okanagana fratercula** Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 20, 1915.
Locality: Utah.

1530½. **Okanagana oregona** Davis

Davis, Jl. N. Y. Ent. Soc., xxiv, p. 233, pl. 11, fig. 1, 1916.
Locality: Oregon.

1531. **Okanagana uncinata** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 41, 1915.
Locality: Calif.

1532. **Okanagana minuta** Davis

Davis, Jl. N. Y. Ent. Soc., xxiii, p. 17, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 42, 1915.
Locality: Calif.

Genus **Tibicinoides** Dist.
Orthotype *cupreo-sparsa* (Uhl.)

Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 27, 43, 1915.

1533. **Tibicinoides cupreo-sparsus** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 43, 1889; p. 161, 1892, *Tibicen.*
Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina.*
Distant, Ann. Mag. Nat. Hist., ser. 8, xiv, p. 166, 1914 (as type of *Tibicinoides*).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 28, 43, 1915.
Locality: Calif.

1534. **Tibicinoides hesperius** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 342, 1876, *Cicada.*
Uhler, Trans. Md. Acad. Sci., i, p. 161, 1892, *Tibicen.*
Distant, Cat. Homop., Cicadidae, p. 125, 1906, *Tibicina?*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 27, 43, 1915.
Localities: Colo., Nev., Calif.

Genus **Clidophleps** Van D.
Orthotype *distanti* (Van D.)

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 25, 31, 1915.

1535. **Clidophleps blaisdelli** (Uhl.)

Uhler, Trans. Md. Acad. Sci., i, p. 163, 1892, *Tibicen.*
Distant, Cat. Homop., Cicadidae, p. 126, 1906, *Okanagana.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1915, *Okanagana.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.
Locality: Calif.

1536. **Clidophleps distanti** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.

a. var. **truncata** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 32, 1915.

b. var. **pallida** (Van D.)

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 47, 1914, *Okanagana.*
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 33, 1915.
Locality: Calif.

TRIBE *PARNISINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 203, 1905. (Div. *Parnisaria.*)
Distant, Fauna Brit. Ind., Rhyn., iii, p. 168, 1906. (Div. *Parnisaria.*)
Distant, Cat. Homop., Cicadidae, p. 139, 1906. (Div. *Parnisaria.*)
Van Duzee, Check List Hemip., p. 57, 1916.

Genus **Platypedia** Uhl.
Logotype *areolata* (Uhl.)

Uhler, Ent. Am., iv, p. 23, 1888.
Woodworth, Psyche, v, p. 67, 1888.
Ashmead, Ent. Am., iv, p. 141, 1888.
Macgillivray, Can. Ent., xxxiii, p. 74, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, pp. 204, 209, 1905 (names *areolata*
Distant, Cat. Homop., Cicadidae, pp. 140, 147, 1906. [type).
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, p. 24, 1915.

1537. **Platypedia putnami** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 455, 1877, *Cicada.*
Uhler, Ent. Am., iv, p. 23, 1888.
Gillette and Baker, Hemip. Colo., p. 65, 1895.
Macgillivray, Can. Ent., xxxiii, p. 76, 1901.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 31, 1915.
Localities: Colo., Utah, Nev., Calif., Oreg.

1538. **Platypedia areolata** (Uhl.)

Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 285, 1862, *Cicada.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876, *Cicada.*
Uhler, Ent. Am., iv, p. 23, 1888.
Woodworth, Psyche, v, p. 68, 1888.
Distant, Cat. Homop., Cicadidae, p. 147, 1906.
Essig, Inj. Benef. Ins. Calif., edn. 2, p. 60, 1915.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 30, 1915.
Localities: Utah, Nev., Calif., Wash.

1539. **Platypedia intermedia** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 30, 1915.
Locality: Calif.

1540. **Platypedia ampliata** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 24, 29, 1915.
Locality: Ore.

1541. **Platypedia minor** Uhl.

Uhler, Ent. Am., iv, p. 81, 1888.
Macgillivray, Can. Ent., xxxiii, p. 76, 1901.
Distant, Cat. Homop., Cicadidae, p. 147, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 28, 1915.
Locality: Calif.

1542. **Platypedia aperta** Van D.

Van Duzee, Jl. N. Y. Ent. Soc., xxiii, pp. 25, 29, 1915.
Locality: Calif.

TRIBE *MALAMPSALTINI* (Dist.)

Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 269, 1905. (Div. *Melampsaltaria.*)
Distant, Fauna Brit. Ind., Rhyn., iii, p. 171, 1906. (Div. *Melampsaltaria.*)
Distant, Cat. Homop., Cicadidae, p. 163, 1906. (Div. *Melampsaltaria.*)

Genus **Melampsalta** Kol.
Logotype *musiva* (Germ.)

Kolenati, Melet. Ent., vii, p. 27, 1857.
Stål, Hemip. Afr., iv, pp. 9, 42, 1866.
Sahlbg., Cicadariae, p. 77, 1871.
Woodworth, Psyche, v, pp. 67, 68, 1888.
Ashmead, Ent. Am., iv, p. 141, 1888.
Karsch, Berl. Ent. Zeit., xxxv, pp. 112, 123, 1890.
Distant, Monog. Oriental Cicad., p. 142, 1892.
Distant, Ann. Mag. Nat. Hist., ser. 7, xvi, p. 269, 1905.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 171, 1906.
Distant, Cat. Homop., Cicadidae, p. 163, 1906.
Oshanin, Kat. Palae. Hemip., p. 96, 1912.
Cicadetta Kolenati, Melet. Ent., vii, p. 19, 1857.
Fieber, Kat. Eur. Cicad., p. 1, 1872.
Fieber, Cicad. d'Eur., i, p. 52, 1875; ii, p. 50, 1876.
Mayr, Tabellen, i, p. 15, 1884.
Melichar, Cicad. Mitt. Eur., p. 8, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 17, 1896.
Oshanin, Verz. Palae. Hemip., ii, p. 13, 1906.
Tettigetta Kolenati, Melet. Ent., vii, p. 24, 1857.

1543. **Melampsalta calliope** (Walk.)

Walker, List Homop., i, p. 212, 1850, *Cicada.*
Kirkaldy, Can. Ent., xli, p. 390, 1909, *Cicada.*
‖*parvula* (Say), Jl. Acad. Nat. Sci., Phila., iv, p. 233, 1825; Compl. Writ., [ii, p. 253, *Cicada* (not. Fabr. 1798).
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 455, 1877, *Cicada.*
Uhler, Ent. Am., iv, p. 22, 1888, *Carineta.*
Woodworth, Psyche, v, p. 68, 1888.
Uhler, Trans. Md. Acad. Sci., i, p. 165, 1892.
Gillette and Baker, Hemip. Colo., p. 65, 1895.
Macgillivray, Can. Ent., xxxiii, p. 76, 1901.
Distant, Cat. Homop., Cicadidae, p. 177, 1906.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 184, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910, *Carineta.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915. [1776).
‖*pallescens* (Germar), Thon, Ent. Archiv., ii, p. 8, 1830, *Cicada* (not Muller,
Localities: N. J., N. C., Ga., Fla., Tenn., La., Ark., Ill., Neb., Kans., Ia., Colo., Texas.

Family CERCOPIDAE (Leach)

Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Cercopida.*
Harris, Rept. Ins. Mass., p. 182, 1841, *Cercopididae.*
Fitch, Homop. N. Y. St. Cab., p. 52, 1851.
Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Cercopina.*
Dohrn, Cat. Hemip., p. 68, 1859, *Cercopina.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 224, 1862, *Cercopididae.*
Stål, Hemip. Afr., iv, p. 54, 1866, *Cercopida.*
Kirschbaum, Cicad. v. Wiesbd., pp. 9, 61, 1868, *Cercopina.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 718, 1870, *Cercopina.*
Sahlberg, Cicad., pp. 65, 80, 1871, *Cercopina.*
Fieber, Cicad. d'Eur., i, p. 41, 1875, *Cercopida.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 315, 1876.
Berg, Hemip. Arg., p. 231, 1879.
Uhler, Stand. Nat. Hist., ii, p. 242, 1884, *Cercopida.*
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 96.
Ashmead, Ent. Am., iv, p. 67, 1888.
Hansen, Ent. Tidskr., xi, p. 64, etc., 1890 (morphology).
Kirkaldy, Entomol., xxxiii, pp. 117, 337, 1900; xxxiv, p. 152; 1901; xxxv, p. [216, 1902 (transl. of Hansen, 1890).
Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 483, 1895. (Key and catalogue.)
Melichar, Cicad. Mitt. Eur., p. 113, 1896.
Fowler, Biol. Centr. Am., Homop., ii, p. 174, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 204.
Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, pp. 296, 379, 1906.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 79, 1908.
Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911.
Lallemand, Genera Ins., fasc. 143, p. 5, 1912 (synoptic).
Metcalfe, Ann. Ent. Soc. Am., x, p. 27, 1917 (wing venation).
Laevipedes Amyot and Serville, Hémip., pp. lxii, 553, 1843. (Race.)
Walker, List Homop., iii, p. 637, 1851.
Aphrophoroideae Spinola, Tavola Sinot., p. 56, 1850.

Subfamily CERCOPINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. lxiii, 558, 1843, *Cercopides.* (Groupe.)
Dohrn, Cat. Hemip., p. 69, 1859, *Cercopidae.*
Stål, Hemip. Afr., iv, p. 55, 1866, *Cercopida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 718, 1870, *Cercopina.*
Berg, Hemip. Arg., p. 231, 1879, *Cercopina.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Cercopida.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 483, 1895.

Fowler, Biol. Centr. Am., Homop, ii, p 174, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 207.
Distant, Fauna Brit. Ind. Rhyn., iv, pp. 79, 109, 1908.
Lallemand, Genera Ins., fasc. 143, pp. 6, 73, 1912.
Rhinaulacinae Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.

Genus **Monecphora** Am. & Serv.
Logotype *cingulata* (L. & S.)

Amyot and Serville, Hémip., p. 562, 1843.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 484, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.
Tomaspis (part) Stål, Stet. Ent. Zeit., xxv, p. 63, 1864.
Stål, Hemip. Afr., iv, p. 56, 1866.
Berg, Hemip. Arg., p. 232, 1879.
Fowler, Biol. Centr. Am., Homop., ii, p. 175, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 207.
Distant, Ann. Mag. Nat. Hist., ser. 8, iii, p. 192, 1909.
Lallemand, Genera Ins., fasc. 143, p. 89, 1912.

1544. **Monecphora schach** (Fabr.)

Fabricius, Ent. Syst., iv, p. 49, 1794, *Cercopis*.
Fabricius, Syst. Rhyng., p. 93, 1803, *Cercopis*.
Stål, Hemip. Fabr., ii, p. 118, 1869, *Tomaspis*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.
Lallemand, Genera Ins., fasc. 143, p. 97, 1912.
Van Duzee, Check List Hemip., p. 57, 1916.
Locality: "N. Am."

1545. **Monecphora bicincta** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 303, 1831; Compl. Writ., ii, p. 381, *Cer-*
Walker, List Homop., iv, p. 1152, 1852, *Tricephora?* [*copis.*
Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 389, 1856.
Stål, Stet. Ent. Zeit., xxv, p. 64, 1864, *Tomaspis*.
Glover, Rept. U. S. Dept. Ag. for 1876, p. 30.
Uhler, Stand. Nat. Hist., ii, p. 242, 1884, *Tomaspis*.
Van Duzee, Psyche, v, p. 388, 1890.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 207, *Tomaspis*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 50, 1907, ix, p. 204, 1909,
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910. [*Tomaspis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 507, 1912.
Lallemand, Genera Ins., fasc. 143, p. 91, 1912, *Tomaspis*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914, *Tomaspis*.
bifascia Walker, List Homop., iii, p. 679, 1851.
Fowler, Biol. Centr. Am., Homop., ii, p. 180, 1897, *Tomaspis*.
angusta Walker, List Homop., iii, p. 680, 1851.
neglecta Walker, List Homop., iii, p. 683, 1851.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915, *Tomaspis*.
†*rubra* Fowler, Biol. Centr. Am., Homop., ii, p. 183, 1897 (part).

a. var. **ignipecta** Fitch.
Harris, Cat. Ins. Mass. *in* Hitchcock, Geol. Mass., p. 584, 1833, *Cercopis* (name
Harris, Rept. Ins. Mass., p. 182, 1841, *Cercopis* (name only). [only).
Walker, List Homop., iii, p. 725, 1851, *Ptyelus* (name only).

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 389, 1856 (described).
Ball, Rept. Ia. Acad. Sci. for 1898, p. 208, *Tomaspis.*
Localities: Mass., Conn., N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Ga., Fla., La., Ia., Kans., Ark., Texas. (Mexico, West Indies.)

Subfamily APHROPHORINAE (Am. & Serv.)

Amyot and Serville, Hémip., pp. lxiii, 563, 1843, *Aphrophorides.* (Groupe)
Dohrn, Cat. Hemip., p. 68, 1859, *Aphrophoridae.*
Stål, Hemip. Afr., iv, pp. 55, 66, 1866, *Aphrophorida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 722, 1870, *Aphrophorina.*
Berg, Hemip. Arg., p. 238, 1879, *Aphrophorina.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Aphrophorina.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 489, 1895.
Ball, Rept. Ia. Acad. Sci. for 1898, pp. 207, 209.
Distant, Fauna Brit. Ind., Rhyn., iv, pp. 79, 85, 1908.
Oshanin, Kat. Palae., Hemip., p. 97, 1912.
Lallemand, Genera Ins., fasc. 143, pp. 6, 18, 1912.
Ptyelinae Fowler, Biol. Centr. Am., Homop., ii, p. 174, 190, 1897.
†*Cercopinae* Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.

Genus **Aphrophora** Germ.

Logotype *spumaria* (Linn.) = *alni* (Fall.)

Germar, Mag. d. Ent., iv, pp. 38, 48, 1821.
Germar, Silb. Rev. Ent., i, p. 179, 1833.
Burmeister, Handb. d. Ent., ii, p. 121, 1835.
Amyot and Serville, Hémip., p. 563, 1843.
Walker, List Homop., iii, p. 697, 1851.
Flor, Rhyn. Livl., ii, p. 132, 1861.
Stål, Hemip. Afr., iv, p. 67, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 13, 1868.
Sahlberg, Cicad., p. 85, 1871.
Fieber, Cicad. d'Eur., i, p. 95, 1875.
Mayr, Tabellen, p. 24, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 97.
Provancher, Pet. Faune Ent. Can., iii, p. 254, 1889.
Edwards, Hemip. Homop., Brit. Isds., p. 78, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, pp. 484, 491, 1895.
Melichar, Cicad. Mitt. Eur., p. 118, 1896.
Fowler, Biol. Centr. Am., Homop., ii, p. 193, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 209.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 99, 1908.
Oshanin, Kat. Palae. Hemip., p. 97, 1912.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 506, 1912.
†*Cercopis* Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.
Lallemand, Genera Ins., fasc. 143, p. 58, 1912.

1546. **Aphrophora quadrinotata** Say

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 304, 1831; Compl. Writ., ii, p. 381.
Fitch, Homop. N. Y. St. Cab., p. 52, 1851.
Walker, List Homop., iv, p. 1154, 1852, *Ptyelus?*
Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856.
Glover, Rept. U. S. Dept. Ag. for 1876, p. 31.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 256, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 211.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 61, 1912, *Cercopis*.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
facialis Walker, Ins. Saund., Homop., p. 93, 1858.
Lallemand, Genera Ins., fasc. 143, p. 60, 1912.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ga., Fla., Ohio, Ill., Ia., N. Dak., Neb.

1547. **Aphrophora angulata** Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 212.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).
Locality: Calif.

1548. **Aphrophora parallela** (Say)

Say, Long's 2d Exp., ii, p. 303, 1824; Compl. Writ., i, p. 202, *Cercopis*.
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382.
Harris, Rept. Ins. Mass., p. 182, 1841.
Fitch, Homop. N. Y. St. Cab., p. 53, 1851, *Lepyronia*.
Walker, List Homop., iii, p. 713, 1851, *Ptyelus*.
Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856; xvii, p. 737, 1857.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862.
Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 255, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 741, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 213.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Felt, 7th Rept. N. Y. St. Forest, Fish, Game Comm., p. 508, pl. 12, fig. 22, 1908.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 61, 1912, *Cercopis*.
cribratus Walker, List Homop., iii, p. 712, 1851, *Ptyelus*.
Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862.
Localities: Nov. Scot., Quebec, Ont., Vt., Mass., N. Y., N. J., Pa., Md., Mich., Ill., Mo., Ark.

1549. **Aphrophora irrorata** Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 214.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Localities: Neb., Colo., N. Mex., Ariz., Calif., Br. Col.

1550. **Aphrophora permutata** Uhl.

Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 472 (MS name).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876 (described).
Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
Gillette and Baker, Hemip. Colo., p. 71, 1895.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 214.
Ball, Ohio Nat., i, p. 123, 1901 (larvae).
Lallemand, Genera Ins., fasc. 143, p. 61, pl. 2, fig. 11, 1912, *Cercopis*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Localities: Colo., N. Mex., Utah, Idaho, Mont., Calif., Wash., Ore.

1551. **Aphrophora saratogensis** (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 53, 1851, *Lepyronia*.
Walker, List Homop., iv, p. 1153, 1852, *Ptyelus*.
Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856; xvii, p. 738, 1857.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 390, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 215.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Lallemand, Genera Ins., fasc. 143, p. 62, 1912, *Cercopis*.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
detritus Walker, List Homop., iii, p. 713, 1851, *Ptyelus*.
Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862, *Ptyelus*.
gelidus Walker, List Homop., iii, p. 714, 1851, *Ptyelus*.
Stål, Of. Vet. Akad. Forh., xix, p. 493, 1862, *Ptyelus*.
Localities: Nov. Scot., Ont., N. H., Mass., N. Y., N. J., Md., D. C., W. Va., N. C., Ga, Fla

1552. **Aphrophora annulata** Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 216.
Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).
Locality: Utah.

1553. **Aphrophora signoreti** Fh.

Fitch, Trans. N. Y. St. Ag. Soc., xvi, p. 388, 1856.
Lintner, 5th Rept. N. Y. St. Ent., p. 245, 1889.
Van Duzee, Psyche, v, p. 390, 1890.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 217.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
Localities: Ont., N. Y., N. C.

1554. **Aphrophora corticea** Germ.

Germar, Mag. d. Ent., iv, p. 50, 1821.
Boheman, Vet. Akad. Handl. for 1847, p. 24.
Stål, Stet. Ent. Zeit., xix, p. 197, 1858.

Kirschbaum, Cicad. v. Wiesbd., p. 64, 1868.
Sahlberg, Cicad. p. 86, 1871.
Melichar, Cicad. Mitt. Eur., p. 119, 1896.
Ashmead, Harriman Alaska Exp., viii, p. 131, 1904.
Localities: Alaska. (Europe.)

Genus **Lepyronia** Am. & Serv.
Logotype *coleoptrata* (Linn.)

Amyot and Serville, Hémip., p. 567, 1843.
Flor, Rhyn. Livl., ii, p. 122, 1861.
Stål, Stet. Ent. Zeit., xxv, p. 67, 1864.
Stål, Hemip. Afr., iv, p. 66, 1866.
Stål, Of. Vet. Akad. Forh., xxvii, p. 722, 1870.
Sahlberg, Cicad., p. 82, 1871.
Fieber, Cicad. d'Eur., i, p. 95, 1875.
Mayr, Tabellen, p. 24, 1884.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 484, 1895.
Melichar, Cicad. Mitt. Eur., pp. 114, 117, 1896.
Fowler, Biol. Centr. Am., Homop., ii, p. 192, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 217.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 97, 1908.
Lallemand, Genera Ins., fasc. 143, pp. 51, 52, 1912.

1555. **Lepyronia quadrangularis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 338, 1825; Compl. Writ., ii, p. 256, [*Cercopis.*
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382,
Harris, Rept. Ins. Mass., p. 182, 1841, *Aphrophora.* [*Aphrophora.*
Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
Walker, List Homop., iii, p. 716, 1851, *Ptyelus.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 389, 1856.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862, *Aphrophora.*
Stål, Berl. Ent. Zeit., x, p. 384, 1866.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 346, 1876; iii, p. 457, 1877, *Aphro-*
Uhler, Stand. Nat. Hist., ii, p. 243, 1884, *Aphrophora.* [*phora.*
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 256, 1889, *Aphrophora.*
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Gillette and Baker, Hemip. Colo., p. 71, 1895.
Comstock, Manual Study Ins., p. 153, fig. 187, 1895.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 218.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 52, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
Localities: Nov. Scot., Quebec, Ont., Me., N. H., Vt., Mass., Conn., N. Y., N. J., Pa., Md., D. C., W. Va., N. C., Ga., Fla., Miss., Ohio, Ia., Dak., Neb., Colo., Manitoba, Utah, Texas.

1556. **Lepyronia angulifera** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 348, 1876.
Gillette and Baker, Hemip. Colo., p. 71, 1895.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 219.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 204, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: N. J., Md., Fla., Texas, N. Mex. (Cuba, Mexico.)

1557. **Lepyronia gibbosa** Ball

Ball, Rept. Ia. Acad. Sci. for 1898, p. 219.
sordida Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 489, 1895.
Localities: Ill., Ia., Neb., Texas. (Mexico.)

? Lepyronia coleoptrata (Linn.)

(Oshanin credits this species to North America, but I am unable now to trace his authority. If found here it is probably Alaskan.)

Genus **Philaronia** Ball
Logotype *bilineata* (Say)

Ball, Rept. Ia. Acad. Sci. for 1898, p. 220.
Lallemand, Genera Ins., fasc. 143, p. 38, 1912.

1558. **Philaronia abjecta** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 346, 1876, *Philaenus.*
Baker, Can. Ent., xxix, p. 111, 1897, *Philaenus.*
Ball, Rept. Ia. Acad. Sci. for 1898, p. 221.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Ball, Ann. Ent. Soc. Am., viii, p. 365, 1915 (habits).
†*angulifera* Gillette and Baker, Hemip. Colo., p. 71, 1895, *Lepyronia.*
Localities: Neb., S. D., Colo., Utah, Ariz., Manitoba, Alaska.

1559. **Philaronia bilineata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 304, 1831; Compl. Writ., ii, p. 381,
Walker, List Homop., iv, p. 1154, 1852, *Ptyelus.* [*Aphrophora.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876, *Philaenus* (as var. of
Baker, Can. Ent., xxix, p. 112, 1897, *Philaenus.* [*lineatus*).
Ball, Rept. Ia. Acad. Sci. for 1898, p. 222.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
†*lineatus* Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877; iv, p. 510,
Van Duzee, Psyche, v, p. 388, 1890, *Philaenus.* [1878, *Philaenus.*
Gillette and Baker, Hemip. Colo., p. 70, 1895, *Philaenus.*
americanus Baker, Can. Ent., xxix, p. 112, 1897, *Philaenus.*
Localities: Quebec, Ont., Me., N. H., Mass., Conn., S. Dak., Ia., Neb., Colo., Mont., Wyo., Idaho, N.W. Can.

Genus **Philaenus** Stål
Logotype *spumarius* (Fall.) = *leucophthalmus* (Linn.)

Stål, Stet. Ent. Zeit., xxv, p. 66, 1864.
Stål, Hemip. Afr., iv, pp. 68, 77, 1866.

Sahlberg, Cicad., pp. 66, 88, 1871.
Fieber, Cicad. d'Eur., i, p. 95, 1875.
Mayr, Tabellen, p. 24, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 98.
Provancher, Pet. Faune Ent. Can., iii, p. 257, 1889.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 485, 1895.
Melichar, Cicad. Mitt. Eur., p. 121, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 79, 1896.
Fowler, Biol. Centr. Am., Homop., ii, pp. 190, 193, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, pp. 209, 223.
Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.
†*Ptyela* Germar, Silb. Rev. Ent., i, p. 179, 1833.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 87, 1908.
Lallemand, Genera Ins., fasc. 143, p. 30, 1912, *Ptyelus* (part).
†*Cercopis* Kirkaldy, Entomol., xxxiii, p. 263, 1900.

1560. **Philaenus leucophthalmus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada.*
Linnaeus, Faune Suec., p. 241, sp. 883, 1761, *Cicada.*
Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2106, 1788, *Cicada.*
Fabricius, Mant. Ins., ii, p. 210, 1787, *Cicada.*
Fabricius, Ent. Syst., iv, p. 52, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis.*
Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora.*
Fallén, Hemip. Suec., Cicad., p. 17, 1826, *Cercopis.*
Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis.*
Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus.*
Sahlberg, Cicad., p. 90, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 380, 1906.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908.
Lallemand, Genera Ins., fasc. 143, p. 36, 1912, *Ptyelus* (as variety).

a. var. **falleni** Van D.

Van Duzee, Can. Ent., xlvi, p. 388, 1915 (n.n. for *spumarius* Fall.).
Van Duzee, Check List Hemip., p. 57, 1916.
†*spumarius* Fallén, Hemip. Suec., Cicad., p. 14, 1826, *Cercopis.*
Zetterstedt, Fauna Lapp., p. 514, 1828, *Cercopis.*
Flor, Rhyn. Livl., ii, p. 126, 1861, *Ptyelus.*
Kirschbaum, Cicad. v. Wiesbd., p. 66, 1868, *Ptyelus.*
Stål, Hemip. Fabr., ii, p. 15, 1869.
Sahlberg, Cicad., p. 89, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 257, 1889.
Lintner, 5th Rept. N. Y. St. Ent., p. 245, 1889.
Van Duzee, Psyche, v, p. 240, 1890.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 496, 1895.
Melichar, Cicad. Mitt. Eur., p. 122, 1896.
Baker, Can. Ent., xxix, p. 111, 1897.

Ball, Rept. Ia. Acad. Sci. for 1898, p. 224.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 35, 1912, *Ptyelus* (as species).
Metcalfe, JI. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

†*bifasciatus* (Fabricius), Syst. Rhyng., p. 98, 1803, *Cercopis*. (Not of Lin-[naeus; *see* Stål, Hemip. Fabr., ii, p. 16.)
Germar, Mag. d. Ent., iv, p. 51, 1821, *Aphrophora*.
Burmeister, Handb. d. Ent., ii, p. 122, 1835, *Aphrophora*.
Blanchard, Hist. des Ins., Hémip., p. 189, 1840, *Aphrophora*.
Walker, List Homop., iii, p. 719, 1851, *Ptyelus*.

b. var. **ustulatus** (Fall.)
Fallén, Hemip. Suec., Cicad., p. 19, 1826, *Cercopis*.
Sahlberg, Cicad., p. 91, 1871.
Melichar, Cicad. Mitt. Eur., p. 122, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 80, pl. 9, fig. 4, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

c. var. **lateralis** (Linn.)
Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.
Linnaeus, Fauna Suec., p. 241, sp. 886, 1761, *Cicada*.
Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.
Fabricius, Ent. Syst., iv, p. 35, 1794, *Cicada*.
Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis*.
Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis*.
Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.
Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus*.
Sahlberg, Cicad., p. 90, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

d. var. **leucocephalus** (Linn.)
Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada*.
Linnaeus, Fauna Suec., p. 241, sp. 885, 1761, *Cicada*.
Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada*.
Fabricius, Mant. Ins., ii, p. 210, 1787, *Cicada*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2106, 1788, *Cicada*.
Fabricius, Ent. Syst., iv, p. 52, 1794, *Cercopis*.
Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis*.
Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora*.
Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis*.
Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis*.
Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus*.
Sahlberg, Cicad., p. 90, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
Van Duzee, Can. Ent., xliv, p. 327, 1912.

albiceps Provancher, Nat. Can., iv, p. 351, 1872, *Ptyelus*.
Provancher, Pet. Faune Ent. Can., iii, p. 258, 1889.

e. var. **marginellus** (Fabr.)
Fabricius, Ent. Syst., iv, p. 52, 1794, *Cercopis.*
Fabricius, Syst. Rhyng., p. 95, 1803, *Cercopis.*
Germar, Mag. d. Ent., iv, p. 54, 1821, *Aphrophora.*
Fallén, Hemip. Suec., Cicad., p. 18, 1826, *Cercopis.*
Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis.*
Sahlberg, Cicad., p. 91, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

f. var. **fasciatus** (Fabr.)
Fabricius, Ent. Syst., iv, p. 55, 1794, *Cercopis.*
Fabricius, Syst. Rhyng., p. 97, 1803, *Cercopis.*
Flor, Rhyn. Livl., ii, p. 127, 1861, *Ptyelus.*
Sahlberg, Cicad., p. 90, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 79, 1886.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.

g. var. **fabricii** Van. D.
Van Duzee, Can. Ent., xlvi, p. 388, 1915.
Van Duzee, Check List Hemip., p. 58, 1916.
‖*lineatus* (Fabricius), Ent. Syst., iv, p. 52, 1794, *Cercopis.*
Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis.*
Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora.*
Fallén, Hemip. Suec., Cicad., p. 19, 1826, *Cercopis.*
Zetterstedt, Fauna Lapp., p. 516, 1828, *Cercopis.*
Flor, Rhyn. Livl., ii, p. 129, 1861, *Ptyelus.*
Sahlberg, Cicad., p. 91, 1871.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 99.
Edwards, Hemip. Homop. Brit. Isds., p. 80, 1896.
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
?oenotherae (Scopoli), Ent. Carn., p. 114, 1763, *Cicada.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.

h. var. **pallidus** (Zett.)
Zetterstedt, Fauna Lapp., p. 515, 1828, *Cercopis.*
Zetterstedt, Ins. Lapp., column 286, 1840, *Cercopis.*
Flor, Rhyn. Livl., ii, p. 128, 1861, *Ptyelus.*
Melichar, Cicad. Mitt. Eur., p. 123, 1896.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
†*oenotherae* Germar, Mag. d. Ent., iv, p. 53, 1821, *Aphrophora.*
Localities: Quebec, Ont., Me., N. Y., N. J., N. C., Dak., Utah, Manitoba, Alaska.

1561. **Philaenus lineatus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada.*
Linnaeus, Fauna Suec., p. 241, sp. 888, 1761, *Cicada.*
Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada.*

?Scopoli, Ent. Carn., p. 144, 1763, *Cicada.*
Fallén, Hemip. Suec. Cicad., p. 20, 1826, *Cercopis.*
Burmeister, Hand. d. Ent., ii, p. 123, 1835, *Aphrophora.*
Flor, Rhyn. Livl., ii, p. 123, 1861, *Ptyelus.*
Kirschbaum, Cicad. v. Wiesbd., p. 65, 1868.
Stål, Hemip. Fabr., ii, p. 16, 1869.
Sahlberg, Cicad., p. 96, 1871.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 347, 1876; iv, p. 510, 1878.
Uhler, Stand. Nat. Hist., ii, p. 243, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 100.
Lintner, 4th Rept. N. Y. St. Ent., p. 120, 1888.
Provancher, Pet. Faune Ent. Can., iii, p. 258, 1889.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Edwards, Hemip. Homop. Brit. Isds., p. 81, pl. 9, fig. 10, 1896.
Melichar, Cicad. Mitt. Eur., p. 124, 1896.
Baker, Can. Ent., xxix, p. 112, 1897.
Ball, Rept. Ia. Acad. Sci. for 1898, p. 225.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 34, 1912, *Ptyelus.*

abbreviata (Fabricius), Ent. Syst., iv, p. 36, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis.*
Germar, Mag. d. Ent., iv, p. 54, 1821, *Aphrophora.*

basivitta (Walker), List. Homop., iii, p. 719, 1851, *Ptyelus.*
Localities: Nova Scot., Quebec, Ont., Me., N. H., Vt., Mass., N. Y., N. J.

Genus **Clastoptera** Germ.
Logotype *achatina* Germ.

Germar, Zeit. f. Ent., i, p. 187, 1838.
Walker, List. Homop., iii, p. 842, 1851.
Stål, Hemip. Afr., iv, p. 69, 1866.
Uhler, Stand. Nat. Hist., ii, p. 244, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 259, 1889.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 485, 1895.
Ball, Proc. Ia. Acad. Sci., iii, p. 183, 1895.
Fowler, Biol. Centr. Am., Homop., ii, p. 198, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Lallemand, Genera Ins., fasc. 143, p. 22, 1912.

1562. **Clastoptera obtusa** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 339, 1825; Compl. Writ., ii, p. 256, [*Cercopis.*
Harris, Rept. Ins. Mass., p. 182, 1841, *Aphrophora.*
Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
Walker, List Homop., iii, p. 724, 1851; iv, p. 1154, 1852, *Ptyelus.*
Fitch, Trans. N. Y. St. Ag. Soc., xvi, pp. 389, 466, 474, 1856.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862, *Aphrophora.*
Uhler, Stand. Nat. Hist., ii, p. 244, 1884.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Lintner, 5th Rept. N. Y. St. Ent., p. 242, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 259, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Lintner, 8th Rept. N. Y. St. Ent., p. 152, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Ball, Proc. Ia. Acad. Sci., iii, p. 188, 1895.
Fowler, Biol. Centr. Am., Homop., ii, p. 202, pl. 12, figs. 23, 24, 1898.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Lallemand, Genera Ins., fasc. 143, p. 23, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
†*lineaticollis* Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
Lallemand, Genera Ins., fasc. 143, pl. 1, fig. 2, 1912.
[*lincata* Sign. MS], Lallemand, Genera Ins., fasc. 143, p. 24, 1912.
[*orbiculata* Sign. MS], Lallemand, Genera Ins., fasc. 143, p. 24, 1912.

a. var. **achatina** Germ.
Germar, Zeit. f. Ent., i, p. 187, 1839.
Fitch, Cat. Homop. N. Y. St. Cab., p. 53, 1851.
Walker, List Homop., iii, p. 842, 1851; iv, p. 1160, 1852.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

b. var. **testacea** Fitch.
Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
Walker, List Homop., iv, p. 1160, 1852.
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857.
Van Duzee, Psyche, v, p. 388, 1890.
Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
Baker, Ent. News, xi, p. 463, 1900.
Lallemand, Genera Ins., fasc. 143, p. 24, 1912.

c. var. **tristis** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
†*achatina* Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895.
†*proteus* Provancher, Pet. Faune Ent. Can., iii, p. 260, 1889.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., Md., D. C., Va., W. Va., N. C., Ohio, Ia., Kans., Colo., Texas, N. Mex., Calif.

1563. **Clastoptera osborni** Gill. & Bak.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Ball, Proc. Ia. Acad. Sci., iii, p. 190, 1895 (as var. of *obtusa*).
Baker, Ent. News, xi, p. 463, 1900.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Lallemand, Genera Ins., fasc. 143, p. 24, 1912.
†*obtusa* Van Duzee, Trans. Am. Ent. Soc., xxiv, p. 111, 1903.
Localities: Colo., N. Mex., Ariz.

1564. **Clastoptera delicata** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 348, 1876; iii, p. 458, 1877.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Ball, Proc. Ia. Acad. Sci., iii, p. 184, 1895.
†*lineaticollis* Baker, Ent. News, xi, p. 463, 1900.
Locality: Colo.

1565. **Clastoptera xanthocephala** Germ.

Germar, Zeit. f. Ent., i, p. 189, 1839.
Walker, List Homop., iii, p. 843, 1851.
Ball, Proc. Ia. Acad. Sci., iii, p. 188, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Lallemand, Genera Ins., fasc. 143, p. 26, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.

a. var. **glauca** Van D.
Heidemann, Proc. Ent. Soc. Wash., iv, p. 399, 1901 (nomen nudum. Habits).
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: Pa., N. J., D. C., N. C., Ga., Fla., Ala., Miss., N. Mex., Texas, Ariz.

1566. **Clastoptera proteus** Fitch

Fitch, Homop. N. Y. St. Cab., p. 54, 1851.
Walker, List Homop., iv, p. 1160, 1852.
Flint *in* Harris, Treat. Ins. Inj. Veg., edn. 3, p. 225, 1862.
Uhler, Stand. Nat. Hist., ii, p. 244, 1884.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Ball, Proc. Ia. Acad. Sci., iii, p. 186, 1895.
Baker, Ent. News, xi, p. 463, 1900.
Van Duzee, 20th Rept. N. Y. Ent. Soc., p. 553, 1905.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.
Lallemand, Genera Ins., fasc. 143, p. 24, pl. 1, fig. 1, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 16, 1915.
saint-cyri Provancher, Nat. Can., iv, p. 351, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 260, 1889.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.
Van Duzee, Check List Hemip., p. 58, 1912 (as var. *a* of *proteus*).
flava Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.

b. var. **vittata** Ball
Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.

c. var. **pini** Fitch
Fitch, Homop. N. Y. St. Cab., p. 53, 1851.
Walker, List Homop., iv, p. 1160, 1852.
Fitch, Trans. N. Y. St. Ag. Soc., xvii, p. 738, 1857.
Van Duzee, Psyche, v, p. 388, 1890.
Lintner, 8th Rept. N. Y. St. Ent., p. 153, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.
‖*nigra* Ball, Proc. Ia. Acad. Sci., iii, p. 187, 1895.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910.
Localities: Quebec, Ont., N. H., Mass., Conn., N. Y., N. J., Pa., D. C., W. Va., N. C., Fla., Ill., Texas.
[Subspecies *flavicollis*, *cincticollis*, *maculicollis*, and *nigricollis* of Fitch, founded on characters common to all varieties, are untenable.]

1567. **Clastoptera lineatocollis** Stål
Stål, Of. Vet. Akad. Forh., xi, p. 253, 1854.
Walker, List Homop., Suppl., p. 260, 1858.
Stål, Freg. Eugen. Resa, Ins., p. 285, 1859.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 508, 1912.
Lallemand, Genera Ins., fasc. 143, p. 24, 1912 (as synon. of *obtusa*).
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.

a. var. **lineata** Ball
Ball, Proc. Ia. Acad. Sci., iii, p. 185, 1895.

b. var. **binotata** Ball
Ball, Proc. Ia. Acad. Sci., iii, p. 185, 1895.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Baker, Ent. News, xi, p. 463, 1900.
Lallemand, Genera Ins., fasc. 143, p. 23, 1912.
Localities: Colo., Utah, N. Mex., Calif.

1568. **Clastoptera unicolor** Fowl.
Fowler, Biol. Centr. Am., Homop., ii, p. 205, 1897.
?[*arkansasensis* Fitch MS], Fowler, Biol. Centr. Am., Homop., ii, p. 205, 1897.
Localities: Ark.(?). (Mexico, Centr. Am.)

Family **MEMBRACIDAE** (Germ.)

Germar, Mag. d. Ent., iv, p. 7, 1821, *Membracides*.
Latreille, Fam. Nat. Règne Anim., p. 427, 1825, *Membracides*.
Burmeister, Handb. d. Ent., ii, p. 126, 1835, *Membracina*.
Curtis, Brit. Ent., xvi, Gen., p. 14, 1840.
Blanchard, Hist. des Ins., Hémip., p. 179, 1840, *Membraciens*.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 235, 1846, *Membracides*.
Walker, List Homop., ii, p. 472, 1851, *Membracina*.

Stål, Stet. Ent. Zeit., xix, p. 234, 1858, *Membracina.*
Dohrn, Cat. Hemip., p. 76, 1859.
Flor, Rhyn. Livl., ii, p. 100, 1861, *Membracina.*
Stål, Hemip. Afr., iv, p. 83, 1866, *Membracida.*
Kirschbaum, Cicad. v. Wiesbd., pp. 13, 66, 1868, *Membracina.*
Sahlberg, Cicad., p. 97, 1871, *Membracina.*
Fieber, Cicad. d'Eur., i, p. 39, 1875, *Membracida.*
Berg, Hemip. Arg., p. 238, 1879.
Provancher, Pet. Faune Ent. Can., iii, p. 225, 1889.
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892 (synopsis).
Fowler, Biol. Centr. Am., Homop., ii, p. 1, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 391, 1894 (catalogue).
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, p. 9, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 29, 1908 (synoptical; list of species).
Distant, Fauna Brit. Ind., Rhyn., iv, p. 1, 1908.
Horvath, Ann. Mus. Natl. Hung., ix, p. 29, 1911.
Matausch, Jl. N. Y. Ent. Soc., xix, p. 194, 1911 (parasitization).
Funkhauser, Ann. Ent. Soc. Am., vi, p. 74, 1913 (wing venation).
Funkhauser, Bul. Brookl. Ent. Soc., x, p. 45, 1915 (Fitch types).
Cornidorsi Amyot and Serville, Hémip., pp. lix, 532, 1843.
Centrotitae Spinola, Tavola Sinot., pp. 27, 53, 1850.

Subfamily SMILIINAE (Stål)

Stål, Hemip. Afr., iv, p. 83, 1866, *Smiliida.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 551, 1867. (Key.)
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 86, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 31, 32, 1908, *Smiliida.* (Key.)

TRIBE *CERASINI* Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 256, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 32, 1908. (Key.)

Genus **Ceresa** Am. & Serv.
Logotype *vitulus* (Fabr.)

Amyot and Serville, Hémip., p. 539, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 283, 1846.
Walker, List Homop., ii, p. 525, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 552, 1867; xxvi, p. 245, 1869.
Stål, Hemip. Fabr., ii, p. 24, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 256, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 102, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 32, 1908. (Key.)

1569. **Ceresa patruelis** Stål

Stål, Stet. Ent. Zeit., xxv, p. 69, 1864 (spelled *patruelis*).
Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Butler, Cist. Ent., ii, p. 217, 1877.
Fowler, Biol. Centr. Am., Homop., ii, p. 105, 1895 (as synon. of *testacea*).
Van Duzee, Can. Ent., xli, p. 382, 1909.
Localities: Fla. (Mexico).

1570. **Ceresa diceros** (Say)

Say, Long's 2d Exped., ii, p. 299, 1824; Compl. Writ., i, p. 199, *Membracis.*
Germar, Silb. Rev. Ent., iii, p. 237, 1835, *Smilia.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 285, 1846.
Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
Walker, List Homop., ii, p. 527, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 16, 1854.
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876.
Butler, Cist. Ent., ii, p. 215, 1877.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 234, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Gillette and Baker, Hemip. Colo., p. 66, 1895.
Buckton, Monog. Membr., p. 169, pl. 35, figs. 2, 3, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 35, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 164, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 331, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

postfasciata Amyot and Serville, Hémip., p. 540, pl. 10, fig. 3, 1843.

Localities: Nov. Scot., Quebec, Ont., N. Y., N. J., Pa., Md., N. C., Ohio, Ill., Ia., Kans., Mo., Dak., Colo., Texas., N. Mex., Mont.

1571. **Ceresa albescens** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 35, 1908.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.

†*bubalus* var. *a.* and *b,* Fitch Homop., N. Y. St. Cab., p. 50, 1851.

Localities: Ont., N. Y., Kans.

1572. **Ceresa bubalus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 14, 1794, *Membracis.*
Fabricius, Syst. Rhyng., p. 20, 1803, *Centrotus.*
Walker, List Homop., ii, p. 531, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 17, 1854.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 335, 359, 1856.
Walker, List Homop, Suppl., p. 131, 1858.
Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 889, 1868.
Stål, Hemip. Fabr., ii, p. 24, 1868.
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Riley, 5th Rept. Nox. Ins. Mo., p. 121, 1873.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876; iii, p. 456, 1877.
Butler, Cist. Ent., ii, p. 215, 1877.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1332.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
Riley, Am. Nat., xvi, p. 822, 1882.
Cooke, Inj. Ins. Orchard, Vineyard, p. 71, 1883.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 235, 1889.
Goding, Insect Life, v, p. 92, 1892.
Slosson, Ent. News, v, p. 5, 1894.
Marlatt, Insect Life, vii, pp. 8–14, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 402, 1894 (bibliography).
Gillette and Baker, Hemip. Colo., p. 65, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 36, 1908.
Howard, Insect Book, p. 239, 1908. [raphy).
Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 92, 1910 (life history, bibliog-
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 331, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Essig, Inj., Benef. Ins. Calif., edn. 2, p. 61, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.

‡*bubalis* Fabricius, Syst. Rhyng., emend. after p. 314, 1803, *Centrotus*.

Localities: Nov. Scot., Quebec, Ont., N. H., Mass., N. Y., Pa., N. J., Md., Del., N. C., Tenn., Ohio, Ind., Ill., Ia., Minn., Kans., Mo., Dak., Mont., Wyo., Colo., Utah, N. Mex., Texas, Calif.

1573. **Ceresa occidentalis** Funkh.

Funkhauser, Ent. News, xxvi, p. 100, 1915.
Locality: Calif.

1574. **Ceresa brevitylus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 36, 1908; ix, p. 205, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: N. J., D. C., N. C., Ga., Fla.

1575. **Ceresa stimulea** Van D.

Van Duzee, Can. Ent., xlvi, p. 388, 1914.
Van Duzee, Check List Hemip., p. 58, 1916.

‖*aculeata* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 205, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Locality: Fla.

1576. **Ceresa taurina** Fitch

Harris, List Ins. Mass. *in* Hitchcock, Geol. Mass., p. 579, 1833 (MS name).
Walker, List Homop., ii, p. 495, 1851, *Enchenopa* (a MS name).
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 335, 1856 (described).
Walker, List Homop., Suppl., p. 131, 1858.

Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 550, 1869, *Membracis.*
Butler, Cist. Ent., ii, p. 215, 1877.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci. v, p. 187, 1894.
Marlatt, Insect Life, vii, p. 8, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 37, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 165, 1910.
Hodgkiss, N. Y. Exp. Sta., Tech. Bul. 17, p. 100, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Matausch, Bul. Am. Mus. Nat. Hist, xxxi, p. 332, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: Ont., Mass., N. Y., N. J., Pa., Va., N. C., Ohio, Mich., Ia., Kans., Colo., Ariz.

1577. **Ceresa constans** (Walk.)

Walker, List Homop., ii, p. 563, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Butler, Cist. Ent., ii, p. 215, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 37, 1908.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
†*subulata* Provancher, Pet. Faune Ent. Can., iii, p. 338, 1890.
illinoiensis Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 404, 1894.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: Ont., N. Y., N. C., Ill.

1578. **Ceresa palmeri** Van D.

Van Duzee, Can. Ent., xl, p. 114, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 38, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: Quebec, Ont., N. Y., N. C.

1579. **Ceresa borealis** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 284, 1846.
Walker, List Homop., ii, p. 526, 1851.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 38, 1908.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.
Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 105, 1910 (life history).
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
†*bubalus* Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
Localities: Ont., N. Y., N. J., Pa., N. C., Ohio, Kans., Colo., Utah.

1580. **Ceresa basalis** Walk.

Walker, List Homop., ii, p. 527, 1851.
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Butler, Cist. Ent., ii, p. 215, 1877.

Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 39, 1908.
Van Duzee, Can. Ent., xl, p. 114, 1908.
Cockerell, Univ. Colo. Studies, vii, p. 127, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 90, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
†*brevicornis* Provancher, Pet. Faune Ent. Can., iii, p. 235, 1889 (female).
†*semicrema* Provancher, Pet. Faune Ent. Can. iii, p. 235, 1889 (male).
melanogaster Osborn, Bul. Nat. Hist. Lab, Ia. St. Mus., ii, p. 390, 1893.
turbida Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 406, 1894.
Gillette and Baker, Hemip. Colo., p. 66, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
†*bubalus* Buckton, Monog. Membr., p. 170, pl. 35, fig. 4, 1902. [*cephala.*
?semi-brunnea Buckton, Monog. Membr., p. 174, pl. 36, fig. 6, 1902, *Sticto-*
Localities: Nov. Scot., Quebec, Ont., N. H., Mass., N. Y., N. J., Ill., Colo., Utah, N. Mex., Calif., Manitoba, Br. Col., Sask.

1581. **Ceresa albido-sparsa** Stål

Stål, Freg. Eugen. Resa, Ins., p. 283, 1859.
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Butler, Cist. Ent., ii, p. 215, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 39, 1908.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Localities: Nev., Calif.

1582. **Ceresa brevis** Walk.

Walker, List Homop., ii, p. 528, 1851.
Stål, Of. Vet. Akad. Forh., xxvi, p. 245, 1869.
Butler, Cist. Ent., ii, p. 218, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 40, 1908.
Localities: N. Y., Colo.(?).

1583. **Ceresa brevicornis** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856.
Rathvon, *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Van Duzee, Psyche, v, p. 388, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
Goding, Insect Life, v, p. 92, 1892.
Goding, Can. Ent., xxv, p. 196, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Moore, Can. Ent., xxxix, p. 189, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 40, 1908.
Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., Ohio, Ill.

1584. **Ceresa femorata** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 289, 1846.
Walker, List Homop., ii, p. 532, 1851.
Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Fowler, Biol. Centr. Am., Homop., ii, p. 108, 1895, *Stictocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 41, 1908.
taeta Walker, List Homop., ii, p. 560, 1851, *Thelia.*
Localities: Colo., Calif.

1585. **Ceresa uniformis** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 289, 1846.
Walker, List Homop., ii, p. 533, 1851.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 41, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: Texas, N. C.(?) (Mexico.)
[May not be distinct from preceding.]

1586. **Ceresa angulata** (Walk.)

Walker, List Homop., ii, p. 558, 1851, *Thelia.*
Butler, Cist. Ent., ii, p. 354, 1878, *Eumela.*
Locality: N. C.

? **Ceresa vitulus** (Fabr.)

Osborn, Ohio Nat., iv, p. 100, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
[Doubtless erroneous determinations.]

Genus **Stictocephala** Stål
Logotype *lutea* Walk.

Stål, Hemip. Fabr., ii, p. 24, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 108, 1895.
Van Duzee, Bul. Buf. Nat. Sci., ix, p. 41, 1908. (Key.)
Van Duzee, Can. Ent., xlvi, p. 388, 1915 (names *lutea* type).
[*Zuela* Fitch MS] Goding, Can. Ent., xxv, p. 196, 1893.

1587. **Stictocephala inermis** (Fabr.)

Fabricius, Syst. Ent., p. 677, 1775, *Membracis.*
Goeze, Ent. Beytr., ii, p. 148, 1778, *Membracis.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2093, 1788, *Cicada.*
Fabricius, Ent. Syst., iv, p. 15, 1794, *Membracis.*
Fabricius, Syst. Rhyng., p. 21, 1803, *Centrotus.*
Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia.*
Walker, List Homop., iv, p. 1142, 1852, *Thelia* (under *lutea*).
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 360, 1856, *Smilia.*
Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Smilia.*
Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 471, 1872.
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 509, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 237, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Goding, Insect Life, v, p. 92, 1892.
Townsend, Can. Ent., xxiv, p. 196, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Buckton, Monog. Membr., p. 174, pl. 36, fig. 5, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.

Felt, 7th Rept. N. Y. St. Fish, Forest, Game Comm., p. 529, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Hodgkiss, N. Y. Agr. Exp. Sta., Tech. Bul. 17, p. 108, 1910 (life history).
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 48, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915. [p. 377, *Membracis. goniphora* Say, Jl. Acad. Nat. Sci. Phila., vi, p. 243, 1830; Compl. Writ., ii, *sanguino-apicalis* Goding, Bul. Ill. St. Labr. Nat. Hist., iii, p. 408, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908.
Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ohio, Ill., Ia., Dak., Kans., Mo., Colo., N. Mex., Ariz., Calif., Mont.

1588. **Stictocephala pacifica** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Locality: Calif.

1589. **Stictocephala wickhami** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 44, 1908.
Localities: Calif., Wash.

1590. **Stictocephala substriata** (Walk.)

Walker, List Homop., ii, p. 558, 1851, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 45, 1908; ix, p. 206, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
Localities: N. J., N. C., Ga., Fla.

1591. **Stictocephala minuta** Funkh.

Funkhauser, Ent. News, xxvi, p. 99, 1915.
Locality: Ga.

1592. **Stictocephala festina** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 243, 1830; Compl. Writ., ii, p. 377, [*Membracis.*
Walker, List Homop., iv, p. 1141, 1852 (*festiva*).
Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Van Duzee, Psyche, v, p. 389, 1890.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 45, 1908; ix, p. 206, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
Wildermuth, Jl. Ag. Research, iii, p. 343, 1915 (life history).
†*uniformis* Stål, Hemip. Fabr., ii, p. 24, 1869.

a. var. **rufivitta** (Walk.)

Walker, List Homop., ii, p. 559, 1851, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.
?*dubia* Fowler, Biol. Centr. Am., Homop., ii, p. 109, 1895.
§*rubrovitta* Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.

b. var. **angulata** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.
Localities: N. J., Pa., N. C., Va., Ga., Fla., Ala., Miss., La., Kans., Mo., Ia., Colo., Texas, Ariz., Calif., Mont. (West Indies.)

1593. ? **Stictocephala rotundata** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 246, 1869.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 46, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
†*uniformis* Guerin *in* La Sagra, Hist. de Cuba, vii, p. 434, pl. 13, fig. 20, 1857.
Localities: N. C., Fla. (det. doubtful). (Neotropical.)

1594. **Stictocephala gillettei** Godg.

Goding, Ent. News, iii, pp. 108, 200, 1892.
Gillette and Baker, Hemip. Colo., p. 66, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 47, 1908.
Localities: Colo., Utah, Calif.

1595. **Stictocephala collina** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 47, 1908.
Locality: Colo.

1596. **Stictocephala nigricans** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.
Locality: Calif.

1597. **Stictocephala franciscana** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 284, 1859, *Ceresa.*
Stål, Hemip. Fabr., ii, p. 24, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 247, 1869.
?Gillette and Baker, Hemip. Colo., p. 66, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 48, 1908.
Localities: Calif., Wash., Colo.?

1598. **Stictocephala lutea** (Walk.)

Walker, List Homop., ii, p. 559, 1851, *Thelia.*
Stål, Hemip. Fabr., ii, p. 24, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 247, 1869.
Goding, Insect Life, v, p. 92, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Buckton, Monog. Membr., p. 195, pl. 42, fig. 7, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 49, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 166, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915. [*Gargara. pectoralis* Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 12, 1854,
†*festina* Provancher, Pet. Faune Ent. Can., iii, p. 237, 1889.
Localities: Quebec, Ont., Conn., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ill.

1599. **Stictocephala diminuta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 49, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: N. C., Fla.

1600. **? Stictocephala nervosa** Buckt.

Buckton, Monog. Membr., p. 195, pl. 42, fig. 8, 1903 (unrecognizable?).
Locality: "N. Y."

Genus **Stictolobus** Metcf.
Orthotype *subulata* (Say)

Metcalfe, Ent. News, xxvii, p. 2, 1916.

1601. **Stictolobus subulatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 300, 1831; Compl. Writ., ii, p. 378,
Walker, List Homop., iv, p. 1143, 1852, *Thelia.* [*Membracis.*
Van Duzee, Psyche, v, p. 387, 1890, *Membracis.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 410, 1894, *Stictocephala?*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908, *Stictocephala?*
Metcalfe, Ent. News, xxvii, p. 3, 1916.
Localities: Md., N. C.

Genus **Acutalis** Fairm.
Logotype *fusconervosa* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 496, 1846.
Stål, Of. Vet. Akad. Forh., xxiv, p. 552, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 113, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 50, 1908. (Key.)

1602. **Actualis tartarea** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376,
Walker, List Homop., iv, p. 1141, 1852, *Ceresa.* [*Membracis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915.
Localities: Mass., N. Y., N. J., Pa., D. C., Fla., Ill., Ia., Mo., Colo., Utah.

a. var. **semicrema** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376,
Walker, List Homop., iv, p. 1141, 1852, *Ceresa.* [*Membracis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876.
Van Duzee, Psyche, v, p. 389, 1890.
Harrington, Ottawa Nat., vi, p. 30, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908; ix, p. 206, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 167, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 5, 1915.
anticonigra Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 498, 1846.
Walker, List Homop., ii, p. 592, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856.
brunnea Provancher, Nat. Can., iv, p. 320, 1872, *Tragopa.*
Provancher, Pet. Faune Ent. Can., iii, p. 248, 1889 *Tragopa.*
Localities: Quebec, Ont., Mass., N. Y., Pa., D. C., N. C., Fla., Miss., Ill., Ia., Mo., Colo., Utah.

1603. **Acutalis inornata** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 119, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 51, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Locality: Fla.

Genus **Micrutalis** Fowl.
Logotype *binaria* (Fairm.)

Fowler, Biol. Centr. Am., Homop., ii, p. 116, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 52, 1908. (Key.)

1604. **Micrutalis dorsalis** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Tragopa.*
Walker, List Homop., iv, p. 1147, 1852, *Tragopa.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 390, 1856, *Acutalis.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Acutalis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876, *Acutalis.*
Saunders, Ins. Inj. to Fruits, p. 289, 1883, *Acutalis.*
Van Duzee, Psyche, v, p. 391, 1890, *Acutalis.*
Goding, Insect Life, v, p. 92, 1892, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.
Localities: Quebec, Ont., N. Y., N. C., Mich., Texas.

1605. **Micrutalis calva** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 242, 1830; Compl. Writ., ii, p. 376, [*Membracis.*
Walker, List Homop., iv, p. 1141, 1852, *Ceresa.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856, *Acutalis.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876, *Acutalis.*
Van Duzee, Psyche, v, p. 389, 1890, *Acutalis.*
Goding, Insect Life, v, p. 92, 1892, *Acutalis.*
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 51, 1907, *Acutalis.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908; ix, p. 206, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 167, 1910.
Matausch, Psyche, xix, p. 66, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
flavipennis Germar, Silb. Rev. Ent., iii, p. 240, 1835, *Smilia.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 497, 1846, *Acutalis.*

a. var. **illinoiensis** (Godg.)
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 430, 1894, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 6, 1915.
Localities: N. H., Mass., N. Y., Pa., Md., D. C., Va., N. C., Ga., Fla., Ala., Miss., Ohio, Mich., Ill., Mo., Kans., Ia., Ark., Texas, Colo. (West Indies.)

1606. **Micrutalis occidentalis** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 429, 1894, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 53, 1908.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.

a. var. **binotata** (Godg.)
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 430, 1894, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 54, 1908.
Localities: Utah, Calif.

1607. **Micrutalis parva** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 429, 1894, *Acutalis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 54, 1908.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
Localities: Ariz., Calif.

Genus **Parantonaë** Fowl.
Haplotype *dipteroides* Fowl.

Fowler, Biol. Centr. Am., Homop., ii, p. 101, 1895.

1608. **Parantonaë hispida** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 49, 1914.
Locality: Calif.

TRIBE *TELAMONINI* Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 54, 1908. (Key.)

Genus **Carynota** Fitch
Logotype *mera* (Say)

Fitch, Homop. N. Y. St. Cab., p. 48, 1851.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Van Duzee, Bul. Soc. Nat. Sci., ix, p. 55, 1908. (Key.)
§*Caranota* Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867 (as synon. of *Ophi-*
Walker, List Homop., iv, p. 1144, 1852. [*derma*).
Optilete Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867 (orthotype *porphyrea*).

1609. **Carynota mera** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 301, 1831; Compl. Writ., ii, p. 379, *Mem-*
Fitch, Homop. N. Y. St. Cab., p. 48 1851. [*bracis.*
Walker, List Homop., iv, p. 1144, 1852.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 465, 1856, *Ophiderma.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Ophiderma.*
Provancher, Pet. Faune Ent. Can., iii, p. 246, 1889.

Van Duzee, Psyche, v, p. 389, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 342, 1890, *Ophiderma.*
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 56, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 167, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 332, 1912.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

majus Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 6, 1854, *Gargara.*
strombergi Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 443, 1894.

Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ohio, Ill., Ia., Mo., Texas.

1610. **Carynota maculata** Funkh.

Funkhauser, Ent. News, xxvi, p. 98, 1915.

Locality: Fla.

1611. **Carynota stupida** (Walk.)

Walker, List Homop., ii, p. 577, 1851, *Darnis.*
Butler, Cist. Ent., ii, p. 343, 1878, *Hypheus.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 450, 1894, *Hypheus.*
Van Duzee, Can. Ent., xliv, p. 326, 1912.

†*marmorata* Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 247, 1889, *Ophiderma.*
Harrington, Ottawa Nat., vi, p. 30, 1892.

muskokensis Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 444, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 56, 1908.

albopicta Buckton, Monog. Membr., p. 135, pl. 29, fig. 1, 1902, *Hypheus.*

Localities: Nov. Scot., Quebec, Ont., Me., Mass.

1612. **Carynota vera** Godg.

Goding, Can. Ent., xxvii, p. 276, 1895 (probably = preceding).

Locality: Me.

1613. **Carynota marmorata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 301, 1831; Compl. Writ., ii, p. 379, *Mem-*
Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Cyrtosia.* [*bracis.*
Walker, List. Homop., ii, p. 555, 1851, *Thelia;* iv, p. 1146, 1852, *Cyrtosia.*
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Goding, Insect Life, v, p. 93, 1892.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, pp. 445, 481, 1894.
Slosson, Ent. News, vii, p. 265, 1896.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 56, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.

tripartita Walker, List Homop., ii, p. 576, 1851, *Darnis.*
Butler, Cist. Ent., ii, p. 343, 1878, *Hyphaeus.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 449, 1894, *Hypheus.*

Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., N. C., Ill.

1614. **Carynota porphyrea** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 306, 1846, *Thelia*
Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867, *Optilete.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 57, 1908.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
picta Provancher, Pet. Faune Ent. Can., iii, p. 246, 1889.
Localities: Quebec, N. Y., N. C.

Genus **Thelia** Am. & Serv.
Haplotype *bimaculata* (Fabr.)

Amyot and Serville, Hémip., p. 540, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 305, 1846.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 334, 1856.
Stål, Of. Vet. Akad. Forh., xxiv, p. 555, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 136, 1896 (notice).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 57, 1908.

1615. **Thelia bimaculata** (Fabr.)

Fabricius, Ent. Syst., iv, p. 10, 1794, *Membracis.*
Coquebert, Illus. Icon. Ins., i, p. 31, pl. 8, fig. 1, 1799, *Membracis.*
Fabricius, Syst. Rhyng., p. 14, 1803, *Membracis.*
Harris, Rept. Ins. Mass., p. 179, 1841, *Hemiptycha.*
Amyot and Serville, Hémip., p. 541, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 312, 1846.
Fitch, Homop. N. Y. St. Cab., p. 52, 1851.
Walker, List Homop., ii, p. 566, 1851; iv, p. 1142, 1852.
Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 3, fig. 15, 1854.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 221, 1862, *Hemiptycha.*
Stål, Hemip. Fabr., ii, p. 115, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Provancher, Pet. Faune Ent. Can., iii, p. 242, pl. 5, fig. 9, 1889.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 57, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 168, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 333, 1912.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Funkhauser, Ann. Ent. Soc. Am., viii, p. 140, 1915 (life history).
†*acuminata* Harris, Rept. Ins. Mass., p. 179, 1841, *Hemiptycha* (female).
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., N. C., Ohio, Ill.

1616. **Thelia uhleri** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 248, 1869.
Van Duzee, Psyche, v, p. 291, 1890.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 58, 1908.
Localities: Ont., N. Y., Pa., Mich., Ill., Wis., Kans.

Genus **Glossonotus** Butl.
Logotype *acuminatus* (Fabr.)

Butler, Cist. Ent., ii, p. 222, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 58, 1908. (Key.)

1617. **Glossonotus acuminatus** (Fabr.)

Fabricius, Syst. Ent., p. 675, 1775, *Membracis.*
Goeze, Ent. Beytr., ii, p. 147, 1778, *Cicada.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, 2094, 1788, *Cicada.*
Fabricius, Ent. Syst., iv, p. 11, 1794, *Membracis.*
Fabricius, Syst. Rhyng., p. 18, 1803, *Centrotus.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, pl. 5, fig. 15, 1846, *Thelia.*
Walker, List Homop., ii, p. 564, 1851, *Thelia.*
Stål, Hemip. Fabr., ii, p. 115, 1869, *Telamona.*
Butler, Cist. Ent., ii, p. 222, 1877.
Van Duzee, Psyche, v, p. 391, 1890, *Thelia.*
Goding, Insect Life, v, p. 93, 1892, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, pl. 16, fig. 17, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Localities: Ont., Mass., N. Y., N. J., Pa., Mich., Ia., Kans., Ark.

1618. **Glossonotus turriculatus** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 1, 1854, *Telamona.*
Van Duzee, Psyche, v, p. 391, 1890, *Thelia.*
Goding, Can. Ent., xxv, p. 196, 1893, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
[*robinae* Fitch MS], Goding, Can. Ent., xxv, p. 196, 1893, *Thelia* (as synon.).
Localities: Mass., N. Y., N. J., Ohio, Ill.

1619. **Glossonotus univittatus** (Harr.)

Harris, Rept. Ins. Mass., p. 180, 1841, *Membracis.*
Walker, List Homop., ii, p. 494, 1851, *Enchenopa.*
Fitch, Trans. N. Y. St. Agr., Soc., xvi, p. 390, 1856, *Thelia.*
Harris, Treat Ins. Inj. Veg., edn. 3, p. 223, 1862, *Membracis.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878, *Thelia.*
Van Duzee, Psyche, v, p. 391, 1890, *Thelia.*
Packard, 5th Rept. U. S. Ent. Comm., p. 98, 1890, *Thelia.*
Goding, Insect Life, v, p. 93, 1892, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia.*
Van Duzee, Ent. News, vi, p. 203, 1895, *Thelia.*
Gillette and Baker, Hemip. Colo., p. 67, 1895, *Thelia.*
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
Van Duzee, Can. Ent., xli, p. 382, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Localities: Ont., Mass., N. Y., N. J., Pa., Ill., Dak., Mont., Colo., N. Mex.

1620. **Glossonotus godingi** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia* (nomen nudum).
Van Duzee, Ent. News, vi, p. 203, 1895, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, 1908, *Telamona.*
Van Duzee, Can. Ent., xli, p. 382, 1909, *Thelia.*
Van Duzee, Can. Ent., xliv, p. 326, 1912.
†*univittata* Fitch, Homop., N. Y. St. Cab., p. 52, 1851, *Thelia.*
Provancher, Pet. Faune Ent. Can., iii, p. 241, 1889, *Thelia.*
dorsalis Buckton, Monog. Membr., p. 197, pl. 43, fig. 3, 1903, *Telamona.*
Localities: Quebec, Ont., Mass., N. Y., Colo.

1621. **Glossonotus crataegi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Thelia.*
Walker, List Homop., iv, p. 1144, 1852, *Thelia?*
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 2, 1854, *Thelia.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 334, 1856, *Thelia.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia.*
Saunders, Ins. Inj. to Fruits, p. 46, fig. 37, 1883, *Thelia.*
Van Duzee, Psyche, v, p. 391, 1890, *Thelia.*
Goding, Insect Life, v, p. 93, 1892, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894, *Thelia.*
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 59, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
†*pyramidoides* Smith, Cat. Ins. N. J., edn. 2, p. 85, 1900, *Thelia.*
Localities: Ont., N. Y., N. J., Pa., Ill., Mo.

Genus **Heliria** Stål
Logotype *eristata* (Fairm.)

Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 60, 1908.

1622. **Heliria cristata** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 311, pl. 5, fig. 14, 1846, *Thelia.*
Walker, List Homop., ii, p. 565, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867; xxvi, p. 249, 1869.
Goding, Can. Ent., xxv, p. 171, 1893.
Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 6, 1896, *Telamona.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 60, 1908.
Van Duzee, Can. Ent., xli, p. 382, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
fagi Fitch, Homop., N. Y. St. Cab., p. 51, 1851, *Telamona.*
acclivata Emmons, Nat. Hist. N. Y. Ins., p. 155, pl. 3, fig. 5, 1854, *Telamona.*
Localities: N. Y., N. J., N. C., Ill.

1623. **Heliria scalaris** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 311, 1846, *Thelia.*
Walker, List Homop., ii, p. 565, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867; xxvi, p. 249, 1869.
Provancher, Pet. Faune Ent. Can., iii, p. 243, 1889, *Telamona.*

Van Duzee, Psyche, v, p. 390, 1890.
Goding, Ent. News, iii, p. 200, 1892 (male).
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 61, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
†*fagi* Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 10, 1854, *Telamona.*
Localities: Quebec, Ont., N. Y., N. J., Pa., Ill., Colo.

1624. **Heliria projecta** (Butl.)

Butler, Cist. Ent., ii, p. 221, 1877, *Telamona.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 120, 1908, *Telamona.*
cucullata Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 70, 1908, *Telamona.*
Locality: N. Y.

1625. **? Heliria strombergi** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 423, 1894.
Goding, Insect Life, v, p. 93, 1892.
Locality: Ill.

1626. **? Heliria anoflava** Buckt.

Buckton, Monog. Membr., p. 198, pl. 43, fig. 4, 1903.
Locality: "N. Am."

Genus **Telamona** Fitch
Logotype *ampelopsidis* Harr.

Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 555, 1867.
Butler, Cist. Ent., ii, p. 220, 1877.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 143, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 61, 1908. (Key.)

1627. **Telamona alta** Funkh.

Funkhauser, Ent. News, xxvi, p. 97, 1915.
Locality: Ga.

1628. **Telamona declivata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 64, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 91, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
Localities: Me., N. Y., N. J., Ohio, Calif.

1629. **Telamona pyramidata** Uhl.

Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333.
Van Duzee, Psyche, v, p. 391, 1890.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Tucker, Univ. Kans. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 64, 1908.
Locality: Colo.
[Goding's other localities probably refer to preceding species.]

1630. **Telamona barbata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 65, 1908.
Matausch, Bul. Am. Mus., Nat. Hist., xxxi, p. 332, 1912.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Localities: N. Y., Ind., N. Mex., Calif.

1631. **Telamona viridia** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 178, pl. 1, fig. 3, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.
Localities: Ia., Colo.

1632. **Telamona obsoleta** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 178, pl. 1, fig. 2, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Localities: N. Y., Ill., Ia., Kans.

1633. **Telamona westcotti** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 415, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 66, 1908.
Localities: N. Y., N. C., Ill.

1634. **Telamona dubiosa** Van D.

Van Duzee, Check List Hemip., p. 59, 1916 (n.n. for *irrorata* Godg.).
‖*irrorata* Goding, Insect Life, v, p. 93, 1892 (nomen nudum).
Goding, Can. Ent., xxv, p. 172, 1893 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 418, 1894.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: N. Y., N. J., Ill.

1635. **Telamona reclivata** Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 7, 1854.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 244, 1889.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Slosson, Ent. News, vii, p. 265, 1896.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
†*cyrtops* Butler, Cist., Ent., ii, p. 222, 1877.
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Ill., Colo., Calif.

1636. **Telamona lugubris** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, 1903.
Localities: Ia., Kans.

1637. **Telamona decorata** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, pl. 1, fig. 6, 1903.
Localities: N. Y., Ia., Kans., Ark.

1638. **Telamona compacta** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 180, pl. 1, fig. 5, 1903.
Localities: Ia., Ark., Colo.

1639. **Telamona ehrhorni** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 180, pl. 1, fig. 4, 1903.
Locality: Ariz.

1640. **Telamona molaris** Butl.

Butler, Cist. Ent., ii, p. 222, 1877.
Locality: Sask.

1641. **Telamona magniloba** Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 422, 1894 (described).
Locality: Ill.

1642. **Telamona pruinosa** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 177, pl. 1, fig. 7, 1903.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
Localities: Ia., Ill., Calif.

1643. **Telamona subfalcata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 509, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: Ga., Fla.

1644. **Telamona querci** Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 4, 1854.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.
Goding, Can. Ent., xxv, p. 171, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908.
§*quercus* Walker, List Homop., iv, p. 1145, 1852.
Butler, Cist. Ent., ii, p. 222, 1877.
Smith, Cat. Ins. N. J., edn. 1, p. 441, 1891, *Thelia.*
brunneipennis Buckton, Monog. Membr., p. 197, pl. 43, fig. 1, 1903.
Localities: Ont., N. Y., D. C., Ohio, Colo., N. Mex., Nev.

1645. **Telamona monticola** (Fabr.)

Fabricius, Syst. Rhyng., p. 7, 1803, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, pl. 5, fig. 16, 1846, *Thelia.*
Stål, Hemip. Fabr., ii, p. 115, 1869.
Butler, Cist. Ent., ii, p. 221, 1877.
Van Duzee, Psyche, v, p. 391, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 128, 1892.
Goding, Insect Life, v, p. 93, 1892.
Goding, Can. Ent., xxv, p. 171, 1893.
Van Duzee, Bul. Buf. Soc., Nat. Sci., v, p. 188, 1894.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Slosson, Ent. News, xvii, p. 326, 1906.
Felt, 7th Rept. N. Y. Forest, Fish, Game. Comm., p. 529, 1908, *Thelia.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 67, 1908; ix, p. 206, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
Localities: N. H., N. J., Pa., N. C., Fla., Colo.

1646. **Telamona ampelopsidis** (Harr.)

Harris, Rept. Ins. Mass., p. 181, 1841, *Membracis.*
Fitch, Homop. N. Y. St. Cab., p. 51, 1851.
Walker, List Homop., iv, p. 1145, 1852.
Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 9, 1854.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 223, 1862, *Membracis.*
Butler, Cist. Ent., ii, p. 221, 1877.
Van Duzee, Psyche, v, p. 391, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915. [*Membracis.*
[*cissi* Harris MS] List Ins. Mass. *in* Hitchcock, Geol. Mass., p. 584, 1833,
cyrtops Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, 1846, *Thelia.*
†*monticola* Uhler, Stand. Nat. Hist., ii, p. 225, fig. 302, 1884.
Localities: Mass., N. Y., N. J., Md., N. C., Ill., Kans., Colo.

1647. **Telamona tristis** Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 473, 1856.
Rathvon *in* Mombert, Hist. Lanc. Co., Pa., p. 551, 1869.
Butler, Cist. Ent., ii, p. 221, 1877.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 243, 1889.
Van Duzee, Psyche, v, p. 391, 1890 (as synon. of *coryli*).
Goding, Insect Life, v, p. 93, 1892.
Goding, Can. Ent., xxv, p. 172, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.
Van Duzee, Can. Ent., xli, p. 382, 1909.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Localities: Quebec, Ont., N. Y., Ill., Mich.

a. var. **coryli** Fitch

Fitch, Homop. N. Y. St. Cab., p. 51, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 6, 1854.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 473, 1856.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Butler, Cist. Ent., ii, p. 221, 1877.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Van Duzee, Psyche, v, p. 391, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 68, 1908.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
?spreta Goding, Bul. Ill. St. Lab. Hist., iii, p. 417, 1894.
Localities: Quebec, Ont., N. Y., N. J., Pa., Ill.

1648. **Telamona concava** Fitch

Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
Butler, Cist. Ent., ii, p. 221, 1877.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Can. Ent., xxv, p. 172, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 69, 1908.
Van Duzee, Can. Ent., xli, p. 382, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
ornata Emmons, Nat. Hist. N. Y., Ins., p. 155, pl. 3, fig. 8, 1854.
Localities: N. H., N. Y., N. J., Pa., Mich.

1649. **Telamona sinuata** Fowl.

Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 7, 1896.
Buckton, Monog. Membr., p. 198, pl. 43, fig. 5, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 69, 1908.
Localities: Ariz.(?). (Mexico.)

1650. **Telamona praealta** Fowl.

Fowler, Trans. Ent. Soc. Lond. for 1894, p. 420.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: "Saguenay," Quebec (not Brazil), Pa., Fla.

1651. **Telamona unicolor** Fitch

Fitch, Homop. N. Y. St. Cab., p. 50, 1851.
?Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 3, 1854.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856.
Rathvon *in* Mombert's Hist Lanc. Co., Pa., p. 551, 1869.
Butler, Cist. Ent., ii, p. 220, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 244 1889.
Van Duzee, Psyche, v, p. 391, 1890 (as synon. of *fasciata*).
Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
Harrington, Ottawa Nat., vi, p. 30, 1892.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 333, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
♂*fasciata* Fitch, Homop., N. Y. St. Cab., p. 50, 1851.
Walker, List Homop., iv, p. 1146, 1852.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856.
Butler, Cist. Ent., ii, p. 220, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 244, 1889.
Van Duzee, Psyche, v, p. 391, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 325, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, Can. Ent., xli, p. 382, 1909.
diffusa Walker, List Homop., Suppl., p. 143, 1858, *Hemiptycha*.

a. var. **irrorata** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856.

Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Mich., Ill., Ia., Kans., Mo., Texas.

1652. **Telamona extrema** Ball

Ball, Proc. Biol. Soc. Wash., xvi, p. 179, pl. 1, fig. 1, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.

Localities: Mass., R. I., N. J., Ia., Kans.

1653. **Telamona collina** (Walk.)

Walker, List Homop., ii, p. 565, 1851, *Thelia.*
Butler, Cist., Ent., ii, p. 220, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 71, 1908 (noticed).
Slosson, Ent. News, xxiii, p. 173, 1912 (note without name).
turritella Buckton, Monog. Membr., p. 198, pl. 44, fig. 6, 1903.

Localities: N. Y., Pa., Fla.

1654. **Telamona maculata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 72, 1908.

Localities: N. Y., Ill.

1655. **Telamona excelsa** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 310, 1846, *Thelia.*
Walker, List Homop., ii, p. 564, 1851, *Thelia.*
Stål, Stet. Ent. Zeit., xxiv, p. 71, 1864.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Insect Life, v, p. 93, 1892.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 422, 1894.
Fowler, Biol. Centr. Am., Homop., ii p. 144, pl. 9, fig. 4, 1896.

Localities: Ill.(?), Mo.(?). (Mexico.)

[Goding's localities probably refer to *extrema.*]

1656. **Telamona mexicana** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 249, 1869.
Butler, Cist. Ent., ii, p. 222, 1877.
Van Duzee, Psyche, v, p. 391, 1890.
Goding, Ent. News, iii, p. 109, 1892 (or *pulchra* if n. sp.).
Fowler, Biol. Centr. Am., Homop., ii, p. 144, pl. 9, fig. 5, 1896.

Localities: Calif.(?). (Mexico.)

1657. **Telamona conica** (Walk.)

Walker, List Homop., ii, p. 557, 1851, *Thelia.*

Locality: Fla.

[**Telamona jugata** Uhl. MS.]

Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 128, 1892.

Locality: Ia.

[**Telamona ellae** Godg. MS.]

Goding, Insect Life, v, p. 93, 1892.

Genus **Telamonanthe** Bak.
Orthotype *rileyi* Godg.

Baker, Can. Ent., xxxix, p. 115, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 55, 72, 1908.

1658. **Telamonanthe rileyi** (Godg.)

Goding, Ent. News, iii, p. 108, 1892, *Telamona.*
Baker, Can. Ent., xxxix, p. 115, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
♀*coquilletti* Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 420, 1894, *Telamona.*
Locality: Calif.

1659. **Telamonanthe pulchella** (Ball)

Ball, Proc. Biol. Soc. Wash., xvi, p. 181, pl. 1, fig. 9, 1903, *Telamona.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 72, 1908.
♂*brevis* Ball, Proc. Biol. Soc. Wash., xvi, p. 181, 1903, *Telamona.*
Locality: Colo.

1660. **Telamonanthe modesta** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 420, 1894, *Telamona.*
Locality: Ill.

Genus **Archasia** Stål
Logotype *galeata* (Fabr.)

Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 54, 73, 1908.

1661. **Archasia galeata** (Fabr.)

Fabricius, Syst. Rhyng., p. 9, 1803, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, 1846, *Thelia.*
Walker, List Homop., ii, p. 563, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.
Uhler, Stand. Nat. Hist., ii, p. 225, 1884.
Van Duzee, Psyche, v, p. 390, 1890.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 529, pl. 16, fig. 16, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 73, 1908; ix, p. 207, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
auriculata Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia.*
Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 3, fig. 12, 1854, *Smilia.*
Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Ga., Fla., Ill., Ia., Colo., Utah, Texas.

1662. **Archasia belfragei** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v p. 189, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 73, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 7, 1915.
canadensis Provancher, Pet. Faune Ent. Can., iii, p. 230, 1889.
Localities: Quebec, Ont., Mass., N. Y., N. J., N. C., Ill., Mich.

1663. **Archasia pallida** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846, *Thelia.*
Walker, List Homop., ii, p. 562, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxvi, p. 250, 1869.
Locality: "N. Am."

TRIBE *SMILIINI* Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 74, 1908. (Key.)

Genus **Smilia** Germ.
Logotype *centralis* Germ.

Germar, Silb. Rev. Ent., i, p. 177, 1833; iii, p. 233, 1835.
Burmeister, Handb. d. Ent., ii, p. 137, 1835.
Amyot and Serville, Hémip., p. 538, 1843.
Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 74, 1908.

1664. **Smilia camelus** (Fabr.)

Fabricius, Syst. Rhyng., p. 10, 1803, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846, *Thelia.*
Walker, List Homop., ii, p. 562, 1851, *Thelia.*
Stål, Hemip. Fabr., ii, p. 115, 1869.
Uhler, Stand. Nat. Hist., ii, p. 225, 1884.
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Goding, Insect Life, v, p. 92, 1892.
Slosson, Ent. News, vi, p. 321, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 74, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 171, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
vittata Amyot and Serville, Hémip., p. 539, 1843.
Fitch, Homop. N. Y. St. Cab., p. 49, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 14, 1854.
compressa Buckton, Monog. Membr., p. 191, pl. 41, fig. 6, 1903, *Antianthe.*

a. var. **guttata** Fitch
Fitch, Homop. N. Y. St. Cab., p. 49, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 3, fig. 11, 1854.

b. var. **zimmermanni** Fairm.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 308, 1846.

c. var. **viridis** Godg.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 426, 1894.

d. var. **silvestri** Mtch.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 172, 1910.
Localities: Ont., N. H., Mass., N. Y., N. J., Pa., N. C., Ga., Fla., Ill., Mich., Ia., Mo., Texas.

1665. **Smilia fasciata** Am. & Serv.
Amyot and Serville, Hémip., p. 539, 1843.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 75, 1908.
Localities: Ga., Fla.

Genus **Antianthe** Fowl.
Logotype *expansa* (Germ.)
Fowler, Biol. Centr. Am., Homop., ii, pp. 89, 137, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 75, 1908.
‖*Janthe* Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Agondas Kirkaldy, Entomol., xxxv, p. 316, 1902.

1666. **Antianthe expansa** (Germ.)
Germar, Silb. Rev. Ent., iii, p. 245, 1835, *Hemiptycha.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 309, pl. 5, figs. 6, 7, 1846, *Thelia.*
Walker, List Homop., ii, p. 563, 1851, *Thelia.*
Stål, Stet. Ent. Zeit., xxv, p. 71, 1864, *Smilia.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867, *Janthe.*
Provancher, Pet. Faune Ent. Can., iii, p. 231, 1889, *Janthe.*
Fowler, Biol. Centr. Am., Homop., ii, p. 137, pl. 8, fig. 21, 1896.
Buckton, Monog. Membr., p. 190, pl. 41, fig. 3, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 76, 1908.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
cucullata Burmeister, Handb. d. Ent., ii, p. 140, 1835, *Hemiptycha.*
Localities: Fla., Ariz., Calif. (Mexico.)

Genus **Cyrtolobus** Godg.
Logotype *fenestratus* (Fitch)
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892 (n.n. for *Cyrtosia* Fitch).
Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 74, 76, 1908. (Key.)
‖*Cyrtosia* Fitch, Homop., N. Y. St. Cab., p. 49, 1851.
Cyrtoisa Kirkaldy, Entomol., xxxvi, p. 179, 1903.

Subgenus **Cyrtolobus** Godg.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 78, 1908. (Key.)

1667. **Cyrtolobus celsus** Van D.
Van Duzee, Check List Hemip., p. 60, 1916 (n.n. for †*fenestratus* Van D.).
†*fenestratus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 81, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: Mass., N. Y., N. J., Ga.

1668. **Cyrtolobus ovatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 82, 1908; ix, p. 207, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: N. Y., N. J., N. C., Ga., Fla.

1669. **Cyrtolobus fuliginosus** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 13, fig. 15, 1854, *Cyrtosia.*
Goding, Can. Ent., xxv, p. 172, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 82, 1908.
Locality: N. Y.

1670. **Cyrtolobus viridis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 3, fig. 13, 1854, *Smilia.*
Goding, Insect Life, v, p. 92, 1892, *Atymna.*
Localities: N. Y., Pa., Ill.

1671. **Cyrtolobus arcuatus** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 154, pl. 13, fig. 14, 1854, *Cyrtosia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
†*muticus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 83, 1908 (part).
Localities: Mass., R. I., N. Y., Pa., N. C., Ga., Fla., Ohio.

1672. **Cyrtolobus fenestratus** (Fitch)

Fitch, Momop. N. Y. St. Cab., p. 49, 1851, *Cyrtosia.*
Walker, List Homop., iv, p. 1147, 1852, *Cyrtosia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 345, 1876; iii, p. 457, 1877, *Cyrtosia.*
Van Duzee, Psyche, v, p. 388, 1890, *Cyrtosia.*
Goding, Insect Life, v, p. 92, 1892, *Cyrtosia.*
Goding, Can. Ent., xxv, p. 172, 1893.
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Van Duzee, Can. Ent., xli, p. 383, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
muticus Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 83, 1908 (part).
Wirtner, Ann. Carn. Mus., iii, p. 211, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: Mass., N. Y., N. J., Pa., N. C., Ga., Fla., Miss., Ohio, Ill., Colo., Dak.

1673. **Cyrtolobus tuberosus** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 307, 1846, *Thelia.*
Walker, List Homop., ii, p. 562, 1851, *Thelia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 84, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
semifascia Walker, List Homop., ii, p. 561, 1851, *Thelia.* [1903, *Argante.*
§*semifasciata* Buckton, Monog. Membr., p. 190, pl. 40, fig. 9, pl. 41, fig. 1,
Localities: Mass., N. Y., N. C., Ga., Fla., Miss., Ill.

1674. **Cyrtolobus vanduzii** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 426, 1894, *Smilia.*
grandis, Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 84, 1908.
Localities: Ariz., Calif.

1675. **Cyrtolobus sculptus** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 307, 1846, *Thelia.*
Walker, List Homop., ii, p. 562, 1851, *Thelia.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867, *Cyrtosia.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 432, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 85, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: N. J., Pa., N. C., Fla., Ohio, Ill., Mich.

1676. **Cyrtolobus discoidalis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 4, 1854, *Gargara.*
Goding, Can. Ent., xxv, p. 172, 1893, *Cyrtosia.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 86, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: N. Y., N. J., N. C., Ga.
[*Cyrtolobus discoidalis* of Fowler (Biol. Centr. Am., Homop., ii, p. 141, 1896) and Buckton (Monog. Membr., p. 192, pl. 41, fig. 8, 1903) is quite distinct from this and may be *Evashmeadia carinata* Stål]

1677. **Cyrtolobus cinctus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 86, 1908.
Locality: N. Y.

1678. **Cyrtolobus vau** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 299, 1831; Compl. Writ., ii, p. 378,
Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia.* [*Membracis.*
Walker, List Homop., iv, p. 1142, 1852, *Thelia.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856, *Smilia.*
Uhler *in* Harris, Treat. Ins. Inj. Veg., edn. 3, p. 220, 1862, *Smilia.*
Uhler, Wheeler's Rept. Chief. Eng. for 1877, p. 1333, *Smilia.*
Van Duzee, Can. Ent., xxi, p. 7, 1889, *Cyrtosia.*
Provancher, Pet. Faune Ent. Can., iii, p. 238, 1889, *Cyrtosia.*
Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia.*
Goding, Insect Life, v, p. 92, 1892, *Cyrtosia.*
Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Gillette and Baker, Hemip. Colo., p. 67, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Slosson, Ent. News, xvii, p. 326, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 87, 1908.
Van Duzee, Can. Ent., xli, p. 383, 1909.
Smith, Cat. Ins. N. J., edn. 3, 92, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
†*fenestrata* Provancher, Pet. Faune Ent. Can., iii, p. 239, 1889, *Cyrtosia.*
[*varius* Goding MS] Moore, Can. Ent., xxxix, p. 189, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ill., Kans., Mo., Ark., Texas, N. Mex., Colo.

1679. **Cyrtolobus limus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 87, 1908.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 50, 1914.
Localities: Colo., Calif.

1680. **Cyrtolobus acutus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 88, 1908.
Localities: Colo., Utah, N. Mex., Ariz.

1681. **Cyrtolobus maculifrontis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 1, 1854, *Gargara.*
Goding, Can. Ent., xxv, p. 172, 1893, *Cyrtosia.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 89, 1908.
Localities: N. Y., Ga., Ill., Mich., Colo.

1682. **Cyrtolobus pallidifrontis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., pl. 13, fig. 7, 1854, *Gargara.*
Goding, Insect Life, v, p. 92, 1892, *Cyrtosia.*
Goding, Can. Ent., xxv, p. 172, 1893.
Localities: N. Y., Ga., Ill.

1683. **Cyrtolobus intermedius** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., pl. 13, fig. 16, 1854, *Cyrtosia.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 433, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.
Locality: N. Y.

1684. **Cyrtolobus inermis** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 9, 1854, *Gargara.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894, *Atymna.*
Goding, Bul. Ill., St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914, *Atymna.*
Localities: N. J., Utah.

1685. **Cyrtolobus griseus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 90, 1908.
Locality: Kans.

1686. **Cyrtolobus cinereus** (Emns.)

Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 3, 1854, *Gargara.*
Goding, Can. Ent., xxv, p. 172, 1893.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894, *Atymna.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 91, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
ornata Provancher, Pet. Faune Ent. Can., iii, p. 240, 1889, *Cyrtosia.*
Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia.*
Localities: Quebec, N. Y., N. J.

1687. **Cyrtolobus fuscipennis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 91, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Localities: N. Y., N. J.

1688. **?Cyrtolobus maculatus** (Buckt.)

Buckton, Monog. Membr., p. 174, pl. 36, fig. 7, 1903, *Centrogonia*.
Locality: N. Y.

[**Cyrtolobus gloveri** Godg. MS.]

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 434, 1894 (nomen nudum).
Glover, MS Notes, Homop., pl. 1, fig. 14 (never published).
Locality: Md.(?).

Subgenus **Atymna** Stål
Haplotype *castaneae* (Fitch)

Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 92, 1908. (Key.)

1689. **Cyrtolobus simplex** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.
Locality: Ariz.

1690. **Cyrtolobus castaneae** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia*.
Walker, List Homop., iv, p. 1143, 1852, *Thelia*.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 470, 1856, *Smilia*.
Walker, List Homop., Suppl., p. 133, 1858, *Smilia*.
Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Smilia*.
Van Duzee, Psyche, v, p. 390, 1890 (as synon. of *inornata* Say?).
Packard, 5th Rept. U. S. Ent. Comm., p. 350, 1890, *Smilia*.
Harrington, Ottawa Nat., vi, p. 30, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Fowler, Biol. Centr. Am., Homop., ii, p. 140, 1896.
Buckton, Monog. Membr., p. 194, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 92, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.

a. var. **lineatus** Buckt.
Buckton, Monog. Membr., p. 195, pl. 42, fig. 6, 1903.

b. var. **nigricephalus** (Emns.)
Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 5, 1854, *Gargara*.
Localities: Ont., N. H., Mass., N. Y., N. J., Pa., N. C., Ga.

1691. **Cyrtolobus helena** Woodr.

Woodruff, Jl. N. Y. Ent. Soc., xxiii, p. 45, 1915.
Locality: N. Y.

1692. **Cyrtolobus querci** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 49, 1851, *Smilia.*
Walker, List Homop., iv, p. 1143, 1852, *Thelia.*
Emmons, Nat. Hist. N. Y., Ins., p. 156, pl. 13, fig. 8, 1854, *Gargara.*
Van Duzee, Psyche, v, p. 390, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 93, 1908.
Matausch, Bul. Am. Mus. Hat. Hist., xxxi, p. 335, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
Localities: Ont., Conn., N. Y., Pa., N. C., Ga., Ill., Mich., Ia., Mo.

1693. **Cyrtolobus inornatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 299, 1831; Compl. Writ., ii, p. 378,
Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Smilia.* [*Membracis.*
Walker, List Homop., iv, p. 1142, 1852, *Thelia.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 471, 1856, *Smilia.*
Walker, List Homop., Suppl., p. 134, 1858, *Smilia.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Smilia.*
Van Duzee, Psyche, v, p. 389, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 350, 1890, *Smilia.*
Goding, Insect Life, v, p. 92, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
Localities: N. Y., N. J., Pa., Md., N. C., Ill.

Subgenus **Evashmeadea** Godg.
Logotype *concinnus* Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 436, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 94, 1908.
‖*Ashmeadea* Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892 (nomen nudum).

1694. **Cyrtolobus concinnus** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 94, 1908.
Locality: Ariz.

Subgenus **Xantholobus** Van D.
Orthotype *inflatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 78, 95, 1908. (Key.)

1695. **Cyrtolobus muticus** (Fabr.)

Fabricius, Genera Ins., p. 297, 1776, *Membracis.*
Fabricius, Species Ins., ii, p. 318, 1781, *Membracis.*
Fabricius, Mant. Ins., ii, p. 265, 1787, *Membracis.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2093, 1788, *Cicada.*
Fabricius, Ent. Syst., iv, p. 15, 1794, *Membracis.*
Fabricius, Syst. Rhyng., p. 21, 1803, *Centrotus.*
Stål, Hemip. Fabr., ii, p. 25, 1869, *Cyrtosia.*
Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia.*

Van Duzee, Check List Hemip., p. 61, 1916. [*Membracis.*
trilineatus Say, Long's 2d Exped., p. 300, 1824; Compl. Writ., i, p. 200,
Provancher, Pet. Faune Ent. Can., iii, p. 239, 1889, *Cyrtosia.*
Van Duzee, Psyche, v, p. 389, 1890, *Cyrtosia.*
Harrington, Ottawa Nat., vi, p. 30, 1892, *Cyrtosia.*
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 96, 1908.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Localities: Quebec, R. I., N. Y., Pa., Ill.

1696. **Cyrtolobus lateralis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 96, 1908.
Locality: N. Y.

1697. **Cyrtolobus inflatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 97, 1908.
Localities: Colo., Ariz.

1698. **Cyrtolobus nitidus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 97, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: N. Y., N. J., D. C., Fla.

1699. **Cyrtolobus tumidus** (Walk.)

Walker, List Homop., ii, p. 560, 1851, *Thelia.*
Locality: Fla.

Genus **Ophiderma** Fairm.
Haplotype *salamandra* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 493, 1846.
Stål, Of. Vet. Akad. Forh., xxiv, p. 554, 1867.
Provancher, Pet. Faune Ent. Can., iii, p. 247, 1889.
Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 142, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 74, 98, 1908. (Key.)

1700. **Ophiderma salamandra** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 493, 1846.
Walker, List Homop., ii, p. 588, 1851.
Slosson, Ent. News, v, p. 5, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 99, 1908; ix, p. 207, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Localities: Quebec, Ont., N. H., Mass., N. Y., N. J., Pa., D. C., Va., Ga., Fla., Ill., Mich.

1701. **Ophiderma pubescens** Emns.

Emmons, Nat. Hist. N. Y., Ins., p. 157, pl. 13, fig. 2, 1854, *Gargara.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 99, 1908.

Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
[*obscura* Van D. MS] Matausch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.
Localities: Mass., N. Y., N. J., Pa., N. C., Ga.

1702. **Ophiderma flaviguttula** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 438, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Slosson, Ent. News, xvii, p. 326, 1906 (*flavoguttata*).
Localities: N. H., Pa., Ill.

1703. **Ophiderma flavicephala** Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 439, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908; ix, p. 207, 1909.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 169, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
Localities: Mass., N. Y., N. J., Pa., Md., N. C., Fla.

1704. **Ophiderma flava** Godg.

Goding, Insect Life, v, p. 93, 1892 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 439, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 8, 1915.
†*inornata* Provancher, Pet. Faune Ent. Can., iii, p. 248, 1889.
Localities: Quebec, Mass., N. Y., Pa., N. C., Ill., Mich.

1705. **Ophiderma pallida** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 100, 1908.
Locality: Ariz.

1706. **Ophiderma nigrocincta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 101, 1908.
Locality: Colo.

TRIBE *POLYGLYPTINI* Godg.

Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 32, 101, 1908. (Key.)

Genus **Idioderma** Van D.
Orthotype *virescens* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 207, 1909.

1707. **Idioderma virescens** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 208, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 530, 1914.
Locality: Fla.

1708. **Idioderma varia** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 208, 1909.
Locality: Fla.

Genus **Vanduzea** Godg.
Orthotype *arcuata* Say

Goding, Trans. Am. Ent. Soc., xix, p. 258, 1892 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894 (valid here).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 102, 1908. (Key.)
Hypamastris Fowler, Biol. Centr. Am., Homop., ii, p. 92, 1895.

1709. **Vanduzea arcuata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 302, 1831; Compl. Writ., ii, p. 380,
Fitch, Homop. N. Y. St. Cab., p. 48, 1851, *Carynota.* [*Membracis.*
Walker, List Homop., iv, p. 1144, 1852, *Carynota.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Caranota.*
Van Duzee, Psyche, v, p. 389, 1890, *Ophiderma?* (suggests new genus).
Goding, Insect Life, v, p. 93, 1892.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908.
Van Duzee, Can. Ent., xli, p. 382, 1909, *Carynota.*
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 335, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
Funkhauser, Psyche, xxii, p. 183, 1915 (life history).
Localities: Ont., N. Y., N. J., Pa., D. C., N. C., Ga., Ohio, Mich., Colo.

1710. **Vanduzea triguttata** (Burm.)

Burmeister, Silb. Rev. Ent., iv, p. 183, 1836, *Entylia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
vestita Goding, Insect Life, v, 93, 1892 (nomen nudum).
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 440, 1894 (*described*).
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908; ix, p. 209, 1909.
Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915.
[*annexus* Uhl. MS] Townsend, Can. Ent., xxiv, p. 196, 1892, *Cyrtolobus.*
Localities: D. C., Fla., Colo., N. Mex., Ariz.

1711. ? **Vanduzea apicalis** (Walk.)

Walker, List Homop., ii, p. 533, 1851, *Ceresa.*
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 441, 1894.
Locality: "N. Am."

1712. **Vanduzea segmentata** (Fowl.)

Fowler, Biol. Centr. Am., Homop., ii, p. 93, pl. 6, fig. 23, 1895, *Hypamastris.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 103, 1908.
Localities: Texas, Ariz. (Mexico.)

1713. **Vanduzea laeta** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 441, 1894 (*Amastris* on p. 481).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.
Locality: Ariz.

1714. **Vanduzea bajula** Godg.

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894, *Evashmeadea.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.
arizonensis Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 437, 1894, *Evash-*
Locality: Ariz. [*meadea.*

Genus **Polyglypta** Burm.
Haplotype *costata* Burm.

Burmeister, Handb. d. Ent., ii, p. 142, 1835.
Burmeister, Silb. Rev. Ent., iv, p. 176, 1836.
Amyot and Serville, Hémip., p. 541, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 296, 1846.
Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867; xxvi, p. 240, 1869.
Provancher, Pet. Faune Ent. Can., iii, p. 240, 1889.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 121, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.

1715. **Polyglypta dorsalis** Burm.

Burmeister, Silb. Rev. Ent., iv, p. 178, 1836.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 297, 1846.
Walker, List Homop., ii, p. 543, 1851.
Stål, Stet. Ent. Zeit., xxiv, p. 73, 1864.
Stål, Of. Vet. Akad. Forh., xxvi, p. 240, 1869.
Butler, Cist. Ent., ii, p. 208, 1877.
Provancher, Pet. Faune Ent. Can., iii, p. 241, 1889.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 394, 1894.
Fowler, Biol. Centr. Am., Homop., ii, p. 124, pl. 8, fig. 5, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 104, 1908.
pallipes Burmeister, Silb. Rev. Ent., iv, p. 179, 1836.
sicula Amyot and Serville, Hémip., p. 541, 1843.
nigella Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 298, 1846.
fusca Butler, Cist. Ent., ii, p. 208, pl. 3, fig. 3, 1877.
hordeacea Butler, Cist. Ent., ii, p. 209, pl. 3, fig. 4, 1877.
Localities: Ga.(?), Texas. (Mexico.)

Genus **Entylia** Germ.
Logotype *sinuata* (Fabr.)

Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 247, 1835.
Burmeister, Handb. d. Ent., ii, p. 143, 1835.
Burmeister, Silb. Rev. Ent., iv, p. 181, 1836.
Blanchard, Hist. des Ins., Hémip., p. 186, 1840.
Amyot and Serville, Hémip., p. 538, 1843 (*Entilia*).
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 299, 1846.
Walker, List Homop., ii, p. 546, 1851.
Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867; xxvi, p. 241, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 129, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908.

1716. **Entylia carinata** (Forst.)

Forster, Nova Spec. Ins., Cent., i, p. 67, 1771, *Cicada.*
Goeze, Ent. Beytr., ii, p. 148, 1778, *Cicada.*

Glover, Rept. U. S. Dept. Agr. for 1876, p. 29, fig. 14.
Glover, MS Notes, Homop., pl. 1, fig. 26, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 232, 1889.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Van Duzee, Check List Hemip., p. 61, 1916.

?[*gibbosa* Retz.] De Geer, Mémoires, iii, p. 211, pl. 32, figs. 20, 21, 1773 (with-
Retzius, Genera et Spec. Ins., p. 80, 1783, *Cicada.* [out name?).
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2094, 1788, *Cicada.*

bactriana Germar, Silb. Rev. Ent., iii, p. 248, 1835.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 300, pl. 5, fig. 32, 1846.
Walker, List Homop., ii, p. 547, 1851.
Stål, Of. Vet. Akad. Forh., xxvi, p. 241, 1869.
Butler, Cist. Ent., ii, p. 211, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 397, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 209, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 105, 124, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.

†*sinuata* Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Entilia.*
Emmons, Nat. Hist. N. Y. Ins., p. 153, pl. 13, fig. 11, 1854, *Entilia.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 229, 1862, *Membracis.*
Provancher, Pet. Faune Ent. Can., iii, p. 232, 1889.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 261, 1910.

indecisa Walker, List. Homop., ii, p. 549, 1851.

†*emarginata* Emmons, Nat. Hist. N. Y., Ins., p. 153, pl. 13, fig. 13, 1854,
impedita Walker, List Homop., Suppl., p. 137, 1858. [*Entilia.*
vittata Buckton, Monog. Membr., p. 184, pl. 39, fig. 6, 1903, *Publilia.*

a. var. **torva** Fitch
Fitch, Homop. N. Y. St. Cab., p. 47, 1851.

accisa Walker, List Homop., ii, p. 548, 1851.
Butler, Cist. Ent., ii, p. 211, 1877.

†*sinuata* Buckton, Monog. Membr., p. 183, pl. 39, fig. 1, 1903.
†*concisa* Buckton, Monog. Membr., p. 183, pl. 39, fig. 2, 1903.

b. var. **reducta** Walk.
Walker, List Homop., ii, p. 549, 1851.
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., N. C., Mich., Ia., Kans.

1717. **Entylia concisa** Walk.

Walker, List Homop., ii, p. 547, 1851.
Butler, Cist. Ent., ii, p. 211, 1877.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908; ix, p. 209, 1909.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.

decisa Walker, List Homop., ii, p. 548, 1851.

†*concava* Provancher, Pet. Faune Ent. Can., iii, p. 233, 1889.
Localities: D. C., N. C., Ga., Fla.

1718. **Entylia sinuata** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 513, 1798, *Membracis.*
Fabricius, Syst. Rhyng., p. 7, 1803, *Membracis.*
Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 248, 1835.
Burmeister, Handb. d. Ent., ii, p. 140, 1835, *Hemiptycha.*
Amyot and Serville, Hémip., p. 538, 1843, *Entilia.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 300, pl. 5, fig. 29, 1846.
Walker, List Homop., ii, p. 546, 1851.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.
Stål, Hemip. Fabr., ii, p. 28, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 241, 1869.
Butler, Cist. Ent., ii, p. 210, 1877.
Murtfeldt, Ent. Am., iii, p. 177, 1887.
Goding, Insect Life, v, p. 92, 1892.
Rice, Insect Life, v, p. 243, 1893, *Entilia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 396, 1894 (part).
Fowler, Biol. Centr. Am., Homop., ii, p. 130, pl. 8, fig. 12, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 209, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908; ix, p. 209, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.

♂*emarginata* Fabricius, Ent. Syst., Suppl., p. 513, 1798, *Membracis.*
Fabricius, Syst. Rhyng., p. 9, 1803, *Membracis.*
Stål, Hemip. Fabr., ii, p. 28, 1869 (male of *sinuata*).
Localities: N. J., N. C., Fla., Miss.

Genus **Publilia** Stål
Orthotype *concava* (Say)

Stål, Of. Vet. Akad. Forh., xxiv, p. 553, 1867 (nomen nudum).
Stål, Berl. Ent. Zeit., x, p. 387, 1867 (valid here).
Provancher, Pet. Faune Ent. Can., iii, p. 245, 1889.
Goding, Trans. Am. Ent. Soc., xix, p. 257, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 131, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 105, 1908. (Key.)

1719. **Publilia concava** (Say)

Say, Long's 2d Exped., ii, p. 301, 1824; Compl. Writ., i, p. 200, *Membracis.*
Germar, Silb. Rev. Ent., iii, p. 249, 1835, *Entilia.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 301, 1846, *Entylia.*
Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Entilia*
Walker, List Homop, ii, p. 547, 1851, *Entylia.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Ceresa.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876.
Provancher, Pet. Faune Ent. Can., iii, p. 245, 1889.
Goding, Insect Life, v, p. 92, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Fowler, Biol. Centr. Am., Homop., ii, p. 131, 1896.
Buckton, Monog. Membr., p. 184, pl. 39, fig. 4, 1903, *Entylia.*
Buckton, Monog. Membr., p. 194, pl. 42, fig. 5, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 107, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, pp. 169, 262, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
grisea Buckton, Monog. Membr., p. 184, pl. 39, fig. 5, 1903.

a. var. **nigridorsum** Godg.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 399, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 188, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 210, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 106, 1908.
Localities: Quebec, Ont., N. Y., N. J., N. C., Ohio, Ill., Ia., Mo., Kans., Ark., Utah.

1720. **Publilia reticulata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 106, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
Localities: N. J., Pa., N. C., Mo.

1721. **Publilia modesta** Uhl.

Uhler, Hayden's Surv. Terr. for 1870, p. 472, 1872 (nomen nudum).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 344, 1876; iii, p. 457, 1877.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333.
Townsend, Can. Ent., xxiv, p. 195, 1892.
Goding, Insect Life, v, p. 92, 1892.
Gillette and Baker, Hemip. Colo., p. 65, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Soc. Nat. Sci., ix, p. 107, 1908.
Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915 (habits).
bicinctura Goding, Ent. News, iii, p. 200, 1892.
Goding, Insect Life, v, p. 92, 1892.
Localities: Dak., Colo., Utah, N. Mex., Ariz., Calif.

Subfamily DARNINAE (Stål)

Stål, Hemip. Afr., iv, p. 83, 1866, *Darnida.*
Stål, Of. Vet. Akad. Forh., xxiv, p. 556, 1867. (Key.)
Goding, Trans. Am. Ent. Soc., xix, p. 254, 1892.
Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 48, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

Genus **Aconophora** Fairm.
Logotype *laminata* Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 294, 1846.
Stål, Of. Vet. Akad. Forh., xxiv, p. 558, 1867.
Stål, Hemip. Fabr., ii, p. 34, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 256, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 61, 1895.
Buckton, Monog. Membr., p. 127, 1902.

1722. ? **Aconophora lineosa** Walk.

Walker, List Homop., Suppl., p. 134, 1858.
Butler, Cist. Ent., ii, p. 352, 1878.
Locality: "N. Am." (Probably a *Platycotis*.)

Genus **Stictopelta** Stål
Haplotype *bipunctata* Burm.

Stål, Hemip. Fabr., ii, p. 32, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 115, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1723. **Stictopelta nova** Godg.

Goding, Ent. News, iii, p. 110, 1892.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 446, 1894.
Localities: Ariz., Calif.

1724. **Stictopelta marmorata** Godg.

Goding, Ent. News, iii, p. 201, 1892.
Townsend, Can. Ent., xxiv, p. 195, 1892.
Goding, Insect Life, v, p. 92, 1892.
Localities: Texas, N. Mex.

1725. **Stictopelta arizona** Godg.

Goding, Can. Ent., xxvii, p. 276, 1895.
Locality: Ariz.

Subfamily HOPLOPHORINAE (Stål)

Stål, Hemip. Afr., iv, p. 82, 1866, *Hoplophorida*.
Stål, Hemip. Fabr., ii, p. 37, 1869, *Hoplophorida*.
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
Fowler, Biol. Centr. Am., Homop. ii, p. 31, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908, *Hoplophorida*.

Genus **Umbonia** Burm.
Haplotype *spinosa* Fabr.

Burmeister, Handb. d. Ent., ii, p. 138, 1835.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 274, 1846.
Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.
Stål, Hemip. Fabr., ii, p. 37, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.
Buckton, Monog. Membr., p. 83, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1726. **Umbonia crassicornis** (Am. & Serv.)

Amyot and Serville, Hémip., p. 543, pl. 10, fig. 1, 1843, *Physoplia*.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 225, 1846.
Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.
Provancher, Pet. Faune Ent. Can., iii, p. 249, 1889, *Physoplia*.
nigrita Amyot and Serville, Hémip., p. 543, 1843, *Physoplia*.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 275, pl. 4, figs. 6, 7, 1846.
Walker, List Homop., ii, p. 516, 1851, *Physoplia*.
Stål, Stet. Ent. Zeit., xxv, p. 69, 1864.
Stål, Of. Vet. Akad. Forh., xxvi, p. 264, 1869.

orozimbo Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 277, pl. 6, fig. 2, 1846.
Walker, List Homop., ii, p. 519, 1851.
Stål, Stet. Ent. Zeit., xxv, p. 69, 1864.
Stål, Of. Vet. Akad. Forh., xxvi, p. 265, 1869.
Provancher, Pet. Faune Ent. Can., iii, p. 250, 1889.
Fowler, Biol. Centr. Am., Homop., ii, p. 36, pl. 3, figs. 15–20, 1894.
Buckton, Monog. Membr., pp. 85, 86, pl. 16, figs. 1–4, 1902.
media Walker, List Homop., ii, p. 516, 1851, *Physoplia.*
picta Walker, List Homop., Suppl., p. 130, 1858.
decorata Walker, List Homop., Suppl., p. 130, 1858.
intermedia Walker, Ins. Saund., Homop., p. 66, 1858, *Physoplia.*
Localities: Ohio, S. C., Fla. (Mexico.)

1727. **Umbonia amazili** Fairm.

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 277, 1846.
Walker, List Homop., ii, p. 519, 1851.
Localities: "N. Am."
[Buckton, Monog. Membr., p. 89, quotes N. Am. for *atalia* Fairm., but his determination cannot be trusted.]

Genus **Platycotis** Stål
Haplotype *vittata* Fabr.

Stål, Hemip. Fabr., ii, pp. 36, 37, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 41, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix p. 109 1908.

1728. **Platycotis vittata** (Fabr.)

Fabricius, Syst. Rhyng., p. 20, 1803, *Centrotus.*
Coquebert, Illust. Icon. Ins., iii, p. 93, pl. 21, fig. 5, 1804, *Cercopis.*
Fairmaire, Ann. Soc. Ent. Fr. sec. 2, iv, p. 273, 1846, *Hoplophora.*
Walker, List Homop., ii, p. 511, 1851, *Hoplophora.*
Stål, Hemip. Fabr., ii, p. 37, 1869.
Buckton, Monog. Membr., p. 130, pl. 27, fig. 7, 1902, *Aconophora.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908.
sagittata Germar, Mag. d. Ent., iv, p. 19, 1821, *Membracis.*
Germar, Silb. Rev. Ent., iii, .p. 241, 1835, *Hoplophora.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, 1846, *Hoplophora.*
Walker, List Homop., ii, p. 515, 1851, *Hoplophora.*
Stål, Hemip. Fabr., ii, p. 37, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 263, 1869.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908; ix, p. 209, 1909.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
belligera Say, Jl. Acad. Nat. Sci. Phila., vi, p. 302, 1824; Compl. Writ.,
Walker, List Homop., iv, p. 1143, 1852, *Thelia.* [ii, p. 380, *Membracis.*
§*vitrata* Burmeister, Handb. d. Ent., ii, p. 134, 1835, *Hoplophora.*
Blanchard, Hist. des Ins., Hémip., p. 181, 1840, *Oxyrachis.*
humilis Walker, List Homop., ii, p. 514, 1851, *Hoplophora.*

viridescens Walker, List Homop., ii, p. 538, 1851, *Aconophora.*
Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Aconophora.*
Butler, Cist. Ent., ii, p. 351, 1878, *Aconophora.*
Fowler, Biol. Centr. Am., Homop., ii, p. 63, 1895, *Aconophora.*
guttifera Walker, List Homop., ii, p. 539, 1851, *Aconophora.*
nigro-maculata Provancher, Pet. Faune Ent. Can., iii, p. 251, 1889.
§*nigrolineata* Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 455, 1894.

a. var. **quadrivittata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 300, 1831; Compl. Writ., ii, p. 379,
Walker, List Homop., iv, p. 1143, 1851, *Thelia.* [*Membracis.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Thelia.*
Butler, Cist. Ent., ii, p. 351, 1878, *Aconophora.*
Provancher, Pet. Faune Ent. Can., iii, p. 250, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Goding, Can. Ent., xxv, p. 172, 1893.
Buckton, Monog. Membr., p. 130, pl. 27, fig. 7, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 109, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Van Duzee, Can. Ent., xliv, p. 326, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
4-lineata Germar, Silb. Rev. Ent., iii, p. 241, 1835, *Hoplophora.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, 1846, *Hoplophora.*
Walker, List Homop., ii, p. 515, 1851, *Hoplophora.*
Stål, Hemip. Fabr., ii, p. 37, 1869.
Goding, Insect Life, v, p. 93, 1892, *Hoplophora.*
lineata Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 270, 1846, *Hoplophora.*
Walker, List Homop., ii, p. 511, 1851, *Hoplophora.*
porrecta Walker, List Homop., ii, p. 538, 1851, *Aconophora.*
§*rubrivittata* Walker, List Homop., ii, p. 537, 1851, *Aconophora.*
§*4-maculata* Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 455, 1894.
Localities: N. J., Pa., Md., D. C., N. C., Ga., Fla., Texas, Ariz., Calif., Vanc. Isd. (Mexico.)

1729. **Platycotis minax** Godg.

Goding, Ent. News, iii, p. 109, 1892.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914.
asodalis Goding, Ent. News, iii, p. 110, 1892, *Potnia.*
Locality: Calif.

Genus **Lophopelta** Stål
Logotype *tuberculata* Fairm.

Stål, Hemip. Fabr., ii, p. 37, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 108, 1908.

1730. **Lophopelta tuberculata** (Fairm.)

Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 273, pl. 6, fig. 9, 1846, *Hoplophora.*
Walker, List Homop., ii, p. 515, 1851, *Hoplophora.*
Stål, Hemip. Fabr., ii, p. 37, 1869.
Fowler, Biol. Centr. Am., Homop., ii, p. 42, pl. 4, figs. 2, 3, 1894.
?Buckton, Monog. Membr., p. 100, pl. 21, fig. 1, 1902, *Platycotis.*
Localities: Calif. (Mexico.)

Subfamily MEMBRACINAE (Stål)

Stål, Hemip. Afr., iv, p. 83, 1866, *Membracida.*
Stål, Hemip. Fabr., ii, p. 38, 1869.
Goding, Trans. Am. Ent. Soc., xix, pp. 253, 258, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 3, 1894.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 3, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908. (Key.)

Genus **Membracis** Fabr.
Logotype *atrata* Fabr.

Fabricius, Syst. Ent., p. 675, 1775.
Fabricius, Genera Ins., p. 172, 1777.
Thunberg, Charac. Gen. Ins., edn. 2, p. 32, 1791.
Walckenaer, Faune Paris., ii, p. 325, 1802.
Fabricius, Syst. Rhyng., p. 6, 1803.
Latreille, Genera Crust. Ins., iii, p. 158, 1807.
Latreille, Consid. Génl., pp. 264, 434, 1810.
Germar, Mag. d. Ent., iv, p. 11, 1821.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 219, 1829 (restricted).
Burmeister, Handb. d. Ent., ii, p. 135, 1835.
Blanchard, Hist. des Ins., Hémip., p. 179, 1840.
Amyot and Serville, Hémip., p. 533, 1843.
Stål, Hemip. Fabr., ii, p. 38, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 4, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908.

1731. **Membracis mexicana** Guer.

Guerin, Icon. Règne Animal, p. 364, pl. 59, fig. 1, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 248, 1846.
Walker, List Homop., ii, p. 478, 1851.
Stål, Stet. Ent. Zeit., xxv, p. 67, 1864.
Provancher, Pet. Faune Ent. Can., iii, p. 228, 1889.
Fowler, Biol. Centr. Am., Homop., ii, p. 5, pl. 1, figs. 4, 5, 1894.
Buckton, Monog. Membr., p. 35, pl. 2, figs. 5, 6, 1902 (*Phyllotropis* on p. 41).
stolida Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 248, 1846.
sexmaculata Walker, Ins. Saund., Homop., p. 59, 1858.
Localities: Calif. (Guerin). (Mexico.)

1732. **? Membracis nigra** Oliv.

Stoll, Cigales, p. 68, pl. 17, fig. 92, 1788, *Cicada* (without name).
Olivier, Encyc. Méth., vii, p. 668, 1792 (named).
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 247, 1846.
Walker, List Homop., ii, p. 477, 1851.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 461, 1894.
Buckton, Monog. Membr., p. 40, 1902, *Phyllotropis.*
compressa Fabricius, Syst. Rhyng., p. 9, 1803.
Germar, Silb. Rev. Ent., iii, p. 225, 1835.
Localities: "West States" (Goding). (Neotropical.)
[Doubtless a wrong determination.]

Genus **Enchophyllum** Am. & Serv.
Logotype *cruentatum* (Germ.)

Amyot and Serville, Hémip., p. 534, 1843.
Stål, Hemip. Fabr., ii, p. 41, 1869.
Fowler, Biol. Centr. Am., Homop., ii, p. 7, 1894.

Subgenus **Phyllotropis** Stål
Haplotype *fasciatum* (Gmel.)

Stål, Hemip. Fabr., ii, p. 41, 1869.

1733. **? Enchophyllum fasciatum** (Gmel.)

Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2092, 1767, *Membracis.*
Fabricius, Mant. Ins., ii, p. 262, 1787, *Membracis.*
Fabricius, Ent. Syst., iv, p. 9, 1794, *Membracis.*
Olivier, Encyc. Méth., vii, p. 662, 1794, *Membracis.*
Fabricius, Syst. Rhyng., p. 9, 1803, *Membracis.*
Germar, Silb. Rev. Ent., iii, p. 225, 1835, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 245, 1846, *Membracis.*
Walker, List Homop., ii, p. 476, 1851, *Membracis.*
Stål, Hemip. Fabr., ii, p. 41, 1869.
Fowler, Biol. Centr. Am., Homop., ii, p. 7, 1894.
Buckton, Monog. Membr., p. 38, pl. 3, fig. 2, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.
cucullata Amyot and Serville, Hémip., p. 534, pl. 9, fig. 2, 1843, *Membracis.*
Localities: "N. Am." (Goding). (Neotropical.)
[Undoubtedly a wrong determination.]

Genus **Campylenchia** Stål
Haplotype *curvata* (Fabr.)

Stål, Hemip. Fabr., ii, pp. 39, 43, 1869.
Goding, Trans. Am. Ent. Soc., xix p. 259, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

1734. **Campylenchia latipes** (Say)

Say, Long's 2d Exped., ii, p. 302, 1824; Compl. Writ., i, p. 202, *Membracis.*
Germar, Silb. Rev. Ent., iii, p. 227, 1835, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 252, 1846, *Membracis.*
Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Enchophyllum.*
Walker, List Homop., ii, p. 482, 1851, *Enchenopa.*
Uhler *in* Harris, Treat. Ins. Inj. Veg., edn. 3, pl. 221, 1862, *Enchenopa.*
Provancher, Pet. Faune Ent. Can., iii, p. 229, 1889, *Enchenopa.*
Buckton, Monog. Membr., p. 49, pl. 6, fig. 2, 1902, *Enchenopa.*
Van Duzee, Can. Ent., xliv, p. 326, 1912; xlvi, p. 388, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 9, 1915.
antonina Walker, List Homop., ii, p. 488, 1851, *Enchenopa.*
venosa Walker, List Homop., ii, p. 488, 1851, *Enchenopa.*
frigida Walker, List Homop., ii, p. 490, 1851, *Enchenopa.*
bimacula Walker, List Homop., ii, p. 491, 1851, *Enchenopa.*
†*curvata* Stål, Hemip. Fabr., ii, p. 43, 1869.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 343, 1876; iii, p. 457, 1877,
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333. [*Enchenopa.*
Van Duzee, Psyche, v, p. 389, 1890.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 11, 1908.
Van Duzee, Can. Ent., xl, p. 115, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 336, 1912.
Ball, Ann. Ent. Soc. Am., viii, p. 368, 1915.

Localities: Quebec, Ont., Me., Vt., N. Y., N. J., Pa., N. C., Ill., Ia., Kans., Mo., Colo., Wyo., Mont., Texas, N. Mex., Ariz., Calif.

Genus **Enchenopa** Am. & Serv.
Haplotype *monoceros* Germ.

Amyot and Serville, Hémip., p. 535, 1843.
Walker, List Homop., ii, p. 481, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 467, 1856.
Stål, Hemip. Fabr., ii, p. 42, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 8, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 111, 112, 1908.

1735. **Enchenopa binotata** (Say)

Say, Long's 2d Exped., ii, p. 301, 1824; Compl. Writ., i, p. 201, *Membracis.*
Germar, Silb. Rev. Ent., iii, p. 226, 1835, *Membracis.*
Harris, Rept. Ins. Mass., p. 181, 1841, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 251, 1846, *Membracis.*
Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Enchophyllum.*
Walker, List Homop., ii, p. 481, 1851.
Emmons, Nat. Hist. N. Y., Ins., p. 156 (*Thelia*), pl. 13, fig. 17 (*Enchophyl-*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 464, 1856. [*lum*), 1854.
Uhler *in* Harris, Treat. Ins. Inj. Veg., edn. 3, p. 221, 1862.
Walsh and Riley, Am. Ent., i, p. 248, 1868, *Enchophyllum.*
Stål, Of. Vet. Akad. Forh., xxvi, p. 272, 1869.
Riley, Am. Ent., iii, p. 254, 1880, *Enchophyllum.*
Lintner, 1st Rept. N. Y. St. Ent., p. 281, 1882.
Dimmock, Psyche, iv, 241, 1885.
Van Duzee, Can. Ent., xxi, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 229, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Goding, Insect Life, v, p. 93, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 187, 1894.
Fowler, Biol. Centr. Am., Homop., ii, p. 9, pl. 1, fig. 10, 1894.
Slosson, Ent. News, vii, p. 265, 1896.
Buckton, Monog. Membr., p. 47, pl. 5, fig. 3, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 212, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Felt, 7th Rept. N. Y. Forest, Fish, Game Comm., p. 530, pl. 16, fig. 15, 1908.
Howard, Insect Book, p. 238, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 112, 1908.

Van Duzee, Can. Ent., xl, p. 115, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 93, 1910.
Matausch, Jl. N. Y. Ent. Soc., xx, p. 58, 1912.
Matausch, Bul. Am. Mus. Nat. Hist., xxxi, p. 336, 1912.
Van Duzee, Can. Ent., xxiv, p. 326, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Funkhauser, Jl. Econ. Ent., viii, p. 368, 1915 (life history).

brevis Walker, List Homop., ii, p. 492, 1851.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 463, 1894.

bifusifera Walker, List Homop., Suppl., p. 125, 1858.
Stål, Of. Vet. Akad. Forh., xxvi, p. 273, 1869.

§*bivittata* Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869.

porrecta Buckton, Monog. Membr., p. 51, pl. 6, fig. 5, 1902.
Localities: Quebec, Ont., Mass., N. H., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ill., Ia., Mich., Kans., Mo., Texas.

1736. **Enchenopa permutata** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 112, 1908.
Localities: Utah, Ariz.

Genus **Leioscyta** Fowl.
Orthotype *pallidipennis* Stål

Fowler, Biol. Centr. Am., Homop., ii, p. 14, 1894.
Buckton, Monog. Membr., p. 54, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

1737. **Leioscyta ferruginipennis** (Godg.)
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 468, 1894, *Tropidoscyta*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 113, 1908.

a. var. **testacea** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 113, 1908.
Localities: Colo., Utah, Ariz., Calif.

1738. **Leioscyta pallidipennis** (Stål)
Stål, Hemip. Fabr., ii, p. 46, 1869, *Tropidoscyta*.
Fowler, Biol. Centr. Am., Homop., ii, p. 14, pl. 1, fig. 21, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.
Localities: Ariz. (Mexico.)

Genus **Multareis** Godg.
Orthotype *cornutus* Godg.

Goding, Can. Ent., xxvii, p. 274, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.

1739. **Multareis cornutus** Godg.
Goding, Can. Ent., xxvii, p. 275, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908.
Localities: Utah, Calif.

Genus **Tylopelta** Fowl.
Haplotype *gibbera* Stål

Fowler, Biol. Centr. Am., Homop., ii, p. 15, 1894.

Buckton, Monog. Membr., p. 55, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.

1740. **Tylopelta gibbera** (Stål)

Stål, Hemip. Fabr., ii, p. 46, 1869, *Tropidoscyta.*
Fowler, Biol. Centr. Am., Homop., ii, p. 15, pl. 2, fig. 1, 1894.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 469, 1894, *Tropidoscyta.*
Buckton, Monog. Membr., p. 55, pl. 7, fig. 7, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 114, 1908. [*idoscyta.*
americana Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 469, 1894, *Trop-*
Localities: Texas, Ariz.

1741. **Tylopelta brevis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 115, 1908; ix, p. 209, 1909.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: N. C., Fla.

Genus **Bolbonota** Am. & Serv.
Haplotype *nisus* Germ.

Amyot and Serville, Hémip., p. 537, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 257, 1846.
Stål, Hemip. Fabr., ii, p. 46, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 259, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 15, 1894.
Buckton, Monog. Membr., p. 61, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 110, 1908.

Subgenus **Tubercunota** Godg.
Orthotype *melaena* Germ.

Goding, Can. Ent., xxv, p. 55, 1893.
Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.

1742. **? Bolbonota tuberculata** Coqueb.

Coquebert, Illust. Icon. Ins., ii, p. 78, pl. 18, fig. 8, 1801, *Membracis.*
Fabricius, Syst. Rhyng., p. 22, 1803, *Centrotus.*
Burmeister, Hand. d. Ent., ii, p. 135, 1835, *Membracis.*
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 260, 1846.
Walker, List Homop., ii, p. 496, 1851.
Stål, Hemip. Fabr., ii, p. 46, 1869.
Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 470, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 115, 1908.
Localities: "Fla." (Goding). (Neotropical.)
[Undoubtedly a wrong determination.]

Subgenus **Bolbonota** Am. & Serv.

Goding, Can. Ent., xxv, p. 55, 1893 (names *aureo-sericea* Stål type).
Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.

1743. **Bolbonota dubiosa** Van D.

Van Duzee, Can. Ent., xlvi, p. 389, 1915 (n.n. for *aureoscericea* Fowl.).
Van Duzee, Check List Hemip., p. 63, 1916.
‖*aureoscericea* Fowler, Trans. Ent. Soc. Lond. for 1894, p. 417.
Fowler, Biol. Centr. Am., Homop., ii, p. 16, 1894.
Locality: "N. Am."

Genus **Centrodontus** Godg.
Orthotype *atlas* Godg.

Goding, Ent. News, iii, p. 201, 1892.
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
?Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 110, 116, 1908.

1744. **Centrodontus atlas** (Godg.)

Goding, Ent. News, iii, p. 110, 1892, *Gargara;* iii, p. 201, 1892.
Townsend, Can. Ent., xxiv, p. 196, 1892, *Gargara.*
Goding, Insect Life, v, p. 92, 1892.
Riley, N. Am. Fauna, vii, p. 250, 1893, *Centrotus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 116, 1908.
Localities: Utah, N. Mex., Ariz., Calif.

Genus **Philya** Walk.
Haplotype *bicolor* Walk.

Walker, List Homop., Suppl., p. 126, 1858 (not *Philya* Stål, Hemip. Afr., i, [p. 33, 1864).
Fowler, Biol. Centr. Am., Homop., ii, p. 21, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 111, 1908.
Aechmophora Stål, Hemip. Fabr., ii, p. 39, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 260, 1892.

1745. **Philya ferruginosa** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 466, 1894, *Aechmophora.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 116, 1908.
Locality: Ariz.

1746. **Philya californiensis** (Godg.)

Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 466, 1894, *Aechmophora.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914 (descriptive note).
Locality: Calif.
[Goding erroneously credits *Sphongophorus ballista* Germ. to Gà. It is neotropical.]

Subfamily CENTROTINAE (Spin.)

Spinola, Tavola Sinot., p. 54, 1850, *Centrotoideae.*
Stål, Hemip. Afr., iv, pp. 83, 86, 1866, *Centrotida.* (Key.)
Stål, Of. Vet. Akad. Forh., xxvi, p. 280, 1869, *Centrotida.* (Key.)
Stål, Hemip. Fabr., ii, p. 49, 1869, *Centrotida.* (Key.)
Stål, Of. Vet. Akad. Forh., xxvii, p. 727, 1870, *Centrotina.*
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
Fowler, Biol. Centr. Am., Homop., ii, pp. 3, 146, 1894.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 9, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, pp. 31, 116, 1908, *Centrotida.*
Nudiscuti Amyot and Serville, Hémip., pp. lxii, 549, 1843.

Genus **Microcentrus** (Stål)
Orthotype *caryae* (Fitch)

Stål, Of. Vet. Akad. Forh., xxvi, p. 295, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
Kirkaldy, Can. Ent., xxxix, p. 249, 1907.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.
Phaulocentrus Fowler, Biol. Centr. Am., Homop., ii, p. 159, 1896.
Centruchoides Fowler, Biol. Centr. Am., Homop., ii, p. 161, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

1747. **Microcentrus caryae** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 52, 1851, *Uroxyphus.*
Walker, List Homop., iv, p. 1147, 1851, *Centrotus.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856, *Uroxyphus.*
Stål, Of. Vet. Akad. Forh., xvi, p. 295, 1869.
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Uroxyphus.*
Van Duzee, Psyche, v, p. 391, 1890.
Packard, 5th Rept. U. S. Ent. Comm., p. 324, 1890, *Uroxyphus.*
Goding, Insect Life, v, p. 92, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.
Matausch, Jl. N. Y. Ent. Soc., xviii, p. 170, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: Ont., N. Y., N. J., Pa., N. C., Ohio.

1748. **Microcentrus perdita** (Am. & Serv.)

Amyot and Serville, Hémip., p. 577, pl. 11, fig. 5, 1843, *Ledra.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 256, 1894, *Ledra.*
Baker, Can. Ent., xxix, p. 38, 1897, *Microcentrus.*
Osborn, Can Ent., xxix, p. 89, 1897, *Centruchus.*
Goding, Can. Ent., xxix, p. 245, 1897 (as var. of *caryae*).
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 111, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908, *Centruchoides.*
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910, *Centruchoides.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914, *Centruchoides.*
[*capra* Melsh. MS] Goding, Can. Ent., xxv, p. 172, 1893.
leibecki Goding, Bul. Ill. St. Lab. Nat. Hist., iii, p. 471, 1894, *Centruchus.*
Localities: Mass., N. J., Pa., Fla., Colo., N. Mex.

Genus **Platycentrus** Stål
Logotype *acuticornis* Stål

Stål, Hemip. Fabr., ii, p. 48, 1869 (nomen nudum).
Stål, Of. Vet. Akad. Forh., xxvi, p. 291, 1869 (valid here).
Goding, Trans. Am. Ent. Soc., xix, p. 254, 1892.
Fowler, Biol. Centr. Am., Homop., ii, pp. 147, 148, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 117, 1908.

1749. **Platycentrus acuticornis** Stål

Stål, Of. Vet. Akad. Forh., xxvi, p. 291, 1869.
Riley, N. Am. Fauna, vii, p. 250, 1893.
Fowler, Biol. Centr. Am., Homop., ii, p. 148, pl. 9, fig. 10, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 118, 1908.
Localities: Ariz.,·Calif. (Mexico.)

Genus **Tylocentrus** Van D.
Haplotype *reticulatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 118, 1908.
Van Duzee, Can. Ent., xli, p. 384, 1909 (cites *reticulatus* as type).

1750. **Tylocentrus reticulatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 119, 1908.
Localities: Texas, Ariz., Utah, Nev.

Genus **Tuberculocentrus** Godg.
Haplotype *solus* Godg.

Goding, Can. Ent., xxvii, p. 275, 1895.

1751. **Tuberculocentrus solus** Godg.

Goding, Can. Ent., xxvii, p. 276, 1895.
Locality: Calif.

Genus **Centrotus** Fabr.
Logotype *cornutus* (Linn.)

Fabricius, Syst. Rhyng., p. 16, 1803.
Germar, Mag. d. Ent., iv, p. 31, 1821.
Fallén, Hemip. Suec., Cicad., p. 8, 1826.
Germar, Silb. Rev. Ent., i, p. 178, 1833; iii, p. 255, 1835.
Burmeister, Handb. d. Ent., ii, p. 131, 1835.
Westwood, Intrd. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *cornuta*
Blanchard, Hist. des Ins., Hémip., p. 182, 1840. [type).
Amyot and Serville, Hémip., p. 550, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 509, 1846 (part).
Spinola, Tavola Sinot, p. 54, 1850.
Flor, Rhyn. Livl., ii, p. 102, 1861.
Stål, Hemip. Afr., iv, pp. 88, 93, 1866.
Stål, Of. Vet. Akad. Forh., xxvi, p. 282, 1869.
Fieber, Cicad. d'Eur., i, p. 47, 1875.
Edwards, Hemip. Homop. Brit. Isds., p. 19, pl. 1, fig. 11, 1896.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 45, 1908.
Acanthicus Laporte, Ann. Soc. Ent. Fr., i, p. 227, 1832.

1752. **Centrotus cornutus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 435, 1758, *Cicada.*
Geoffroy, Hist. Abrég. des Ins., i, p. 423, No. 18, pl. 9, fig. 2, 1762, *Cicada.*
Scopoli, Ent. Carn., p. 115, 1763, *Cicada.*
Linnaeus, Syst. Nat., edn. 12, i, p. 705, 1767, *Cicada.*
Fabricius, Syst. Ent., p. 676, 1775, *Membracis.*
Goeze, Ent. Beytr., ii, p. 128, 1778, *Cicada.*
Fabricius, Spec. Ins., ii, p. 317, 1781, *Cicada.*
Retzius, Genera et Spec. Ins., p. 81, 1783, *Cicada.*
Fourcroy, Ent. Paris., i, p. 189, 1785, *Cicada.*
Fabricius, Mant. Ins., ii, p. 264, 1787, *Cicada.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2094, 1788, *Cicada.*
Fabricius, Ent. Syst., iv, p. 14, 1794, *Membracis.*
Lamarck, Syst. Anim. s. Vert., p. 292, 1801, *Tettigonia.*
Walckenaer, Faune Paris., ii, p. 325, 1802, *Membracis.*
Fabricius, Syst. Rhyng., p. 19, 1803.
Germar, Mag. d. Ent., iv, p. 32, 1821.

Fallén, Hemip. Suec., Cicad., p. 8, 1826.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 219, 1829.
Burmeister, Handb. d. Ent., ii, p. 132, 1835.
Germar, Silb. Rev. Ent., iii, p. 256, 1835.
Herrich-Schaeffer, Nomen. Ent., i, p. 66, 1835.
Blanchard, Hist. des Ins., Hémip., p. 182, 1840.
Amyot and Serville, Hémip., p. 551, 1843.
Fairmaire, Ann. Soc. Ent. Fr., ser. 2, iv, p. 514, 1846.
Walker, List Homop., ii, p. 610, 1851.
Flor, Rhyn. Livl., ii, p. 104, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 67, 1868.
Sahlberg, Cicad., p. 98, 1870.
Fieber, Cicad. d'Eur., ii, p. 10, 1876.
Melichar, Cicad. Mitt. Eur., p. 16, figs. 18–22, 1896.
Buckton, Monog. Membr., p. 245, pl. 56, fig. 7, 1903.
Distant, Ann. Mag. Nat. Hist., ser. 8, p. 155, 1916.
Van Duzee, Check List Hemip., p. 63, 1916.

fusca De Geer, Mémoires, iii, p. 118, pl. 11, fig. 22, 1773, *Cicada.* [*trus.*
rugosus Buckton, Monog. Membr., p. 243, pl. 56, fig. 3, 1903, *Campylocen-*

Localities: Pa. (Ziegler in Mus. Comp. Zool., Cambr.). (Palaearetic.)

Subfamily AETHALIONINAE (Spin.)

Spinola, Tavola Sinot, p. 54, 1850, *Aethalionoideae.*
Ashmead, Ent. Am., v, p. 125, 1889 (as subfam. of *Bythoscopidae*).
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892, *Aethalionini.*
Fowler, Biol. Centr. Am., Homop., ii, p. 170, 1897.

Genus **Aethalion** Latr.

Orthotype *reticulata* (Fabr.)

Latreille, Consid. Gènl., p. 263, 1810.
Hoffmansegg, Wied. Zool. Mag., i, pt. 2, p. 92, 1817, *Aethalia.*
Germar, Mag. d. Ent., iv, p. 94, 1821, *Aethalia.*
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 220, 1829.
Germar, Silb. Rev. Ent., i, p. 179, 1833, *Aethalia.*
Burmeister, Handb. d. Ent., ii, p. 108, 1835, *Aethalia.*
Blanchard, Hist. des Ins., Hémip., p. 198, 1840.
Amyot and Serville, Hémip., p. 556, 1843.
Spinola, Tavola Sinot., p. 54, 1850.
Signoret, Ann. Soc. Ent. Fr., ser. 2, ix, p. 670, 1851.
Walker, List Homop., iii, p. 646, 1851.
Stål, Hemip. Fabr., ii, p. 49, 1869.
Stål, Of. Vet. Akad. Forh., xxvi, p. 296, 1869.
Goding, Trans. Am. Ent. Soc., xix, p. 253, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 170, 1897.

‡*Cetalion* Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.

1753. **Aethalion nervoso-punctatum** Sign.

Signoret, Ann. Soc. Ent. Fr., ser. 2, ix, p. 679, pl. 14, fig. 10, 1851.
Stål, Of. Vet. Akad. Forh., xxvi, p. 299, 1869.
Fowler, Biol. Centr. Am., Homop., ii, p. 172, pl. 10, fig. 20, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 53, 1907.

Localities: Ariz. (West Indies, Mexico.)

Family CICADELLIDAE (Latr.)

Latreille, Fam. Nat. Règne Animal, p. 427, 1825, *Cicadellae*.
Germar, Silb. Rev. Ent., i, p. 178, 1833 (includes *Cercopidae*).
Burmeister, Handb. d. Ent., ii, p. 103, 1835, *Cicadellina*.
Blanchard, Hist. des Ins., Hémip., p. 187, 1840, *Cicadellicns*.
Walker, List Homop., iii, p. 637, 1851, *Cicadellina* (includes *Cercopidae*).
Flor, Rhyn. Livl., ii, p. 107, 1861, *Cicadellina* (includes *Cercopidae*).
Van Duzee, Check List Hemip., p. 63, 1916.
Lathrop, Ohio Jl. Sci., xvii, p. 119, 1917 (South Carolina species).
Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 79, 1917 (Wisconsin species).
Scrripedes Amyot and Serville, Hémip., p. 569, 1843.
Tettigonitae Spinola, Tavola Sinot., pp. 27, 56, 1850 (includes *Cercopidae*).
Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 295, 1907; iii, pp. 9, 23, [1907.
Jassina Stål, Stet. Ent. Zeit., xix, p. 234, 1858.
Dohrn, Cat. Hemip., p. 83, 1859.
Stål, Stet. Ent. Zeit., xxv, p. 73, 1864.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866, *Jassidae*.
Stål, Hemip. Afr., iv, p. 99, 1866, *Jassida*.
Kirschbaum, Cicad. v. Wiesbd., p. 69, 1868.
Stål, Of. Vet. Akad. Forh., xxvii, p. 727, 1870 (includes *Membracidae*).
Sahlberg, Cicad., pp. 67, 99, 1871.
Fieber, Kat. Europ. Cicad., p. 8, 1872, *Jassida*.
Fieber, Cicad. d'Eur., i, p. 99, 1875, *Jassida*.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 9, 1887, *Jassidae*.
Hansen, Ent. Tidskr., xi, p. 64, 1890, *Jassidae* (morphology). [fam.).
Van Duzee, Trans. Am. Ent. Soc., xix, p. 295, 1892, *Jassoidea* (Super-
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 245, 1894, *Jassoidea* (Cata-
Melichar, Cicad. Mitt. Eur., p. 131, 1896, *Jassidae*. [logue).
Kirkaldy, Transl. of Hansen, Entomol., xxxiii, p. 118, 1900; xxxiv, p. [152, 1901; xxv, pp. 217, 234, 1902.
Osborn, 20th Rept. N. Y. St. Ent., p. 500, 1905, *Jassoidea*.
Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 66, 1906, *Jassidae*.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 157, 1908, *Jassidae*.
Smith, Cat. Ins. N. J., edn. 3, p. 99, 1910, *Jassoidea*.
Horvath, Ann. Mus. Natl. Hung., ix, p. 28, 1911, *Jassidae*.
Metcalfe, Ann. Ent. Soc. Am., vi, p. 103, 1913, *Jassidae* (wing venation).

Subfamily PAROPINAE (Dohrn)

Dohrn, Cat. Hemip., p. 83, 1859, *Paropidae*.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866, *Paropidae*.
Sahlberg, Cicad., pp. 72, 373, 1871, *Paropidea*.
Fieber, Kat. Europ. Cicad., p. 7, 1872.
Fieber, Cicad. d'Eur., i, p. 43, 1875.
Melichar, Cicad. Mitt. Eur., p. 130, 1896, *Paropidae*.
Van Duzee, Check List Hemip., p. 63, 1916.
Koebeliidae Baker, Psyche, viii, p. 76, 1897.
Megophthalminae Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, p. 296, 1906.
Oshanin, Verz. Palae. Hemip., ii, p. 47, 1906.
Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 24, 89, 1907.
Oshanin, Kat. Palae. Hemip., p. 99, 1912.

Genus **Koebelia** Bak.
Orthotype *californica* Bak.

Baker, Psyche, viii, p. 76, 1897.

1754. **Koebelia californica** Bak.

Baker, Psyche, viii, p. 76, 1897.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Locality: Calif.

1755. **Koebelia irrorata** Ball

Ball, Can. Ent., xli, p. 185, 1909.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Ariz., Calif.

1756. **Koebelia coronata** Ball

Ball, Can. Ent., xli, p. 185, 1909.
Locality: Calif.

1757. **Koebelia grossa** Ball

Ball, Can. Ent., xli, p. 185, 1909.
Locality: Calif.

Genus **Paropulopa** Fieb.
Haplotype *lineata* Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 500, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 14, 69, 1868.
Fieber, Cicad. d'Eur., i, p. 99, pl. 11, figs. 33, 36, 1875; ii, pl. 9, 1876.

1758. **Paropulopa interrupta** Ball

Ball, Can. Ent., xxxiv, p. 21, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914, *Koebelia*.
Locality: Calif.

1759. **Paropulopa friscana** Ball

Ball, Can. Ent., xli, p. 183, 1909.
Locality: Calif.

1760. **Paropulopa arborea** Ball

Ball, Can. Ent., xli, p. 184, 1909.
Locality: Calif.

1761. **Paropulopa californica** Ball

Ball, Can. Ent., xli, p. 184, 1909.
Locality: Calif.

Subfamily BYTHOSCOPINAE (Dohrn)

Dohrn, Cat. Hemip., p. 84, 1859, *Bythoscopidae*.
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 449, 1868, *Bythoscopida*.
Sahlberg, Cicad., pp. 68, 113, 1871, *Bythoscopidae*.
Fieber, Kat. Eur. Hemip., p. 8, 1872, *Bythoscopidae*.
Fieber, Cicad. d'Eur., ii, p. 100, 1876, *Bythoscopidae*.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 48, 1879, *Bythoscopides*.
Berg, Hemip. Arg., p. 276, 1879, *Bythoscopina*.

Ashmead, Ent. Am., iv, p. 67, 1888; v, p. 125, 1889, *Bythoscopidae.*
Van Duzee, Ent. Am., v, p. 165, 1889, *Bythoscopidae.* (Key.)
Van Duzee, Trans. Am. Ent. Soc., xix, p. 296, 1892, *Bythoscopidae.*
Osborn, 20th Rept. N. Y. St. Ent., p. 500, 1905, *Bythoscopidae.*
Matsumura, Schrift. Nat. Ges. Danz., xi, p. 72, 1906, *Bythoscopidae.*
Distant, Fauna Brit. Ind., Rhyn., iv, p. 183, 1908.
Agallinae Kirkaldy, Haw. S. P. A., Exp. St. Bul., i, pp. 296, 345, 1906.
Eurymelini Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 24, 29, 1907.

Genus **Agallia** Curt.
Haplotype *consobrina* Curt. = *puncticeps* Germ.

Curtis, Ent. Mag., i, p. 193, 1833.
Kirschbaum, Die Gatt. Idiocerus, p. 3, 1868.
Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, pp. 450, 462, 1868.
Sahlberg, Cicad. p. 151, 1871.
Fieber, Cicad. d'Eur., i, p. 103, 1875; ii, pl. 9, 1876.
Mayr, Tabellen, p. 27, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 125.
Ashmead, Ent. Am., v, p. 126, 1889.
Van Duzee, Ent. Am., v, p. 166, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 296, 1889.
Melichar, Cicad. Mitt. Eur., p. 169, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 110, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 45, 1897.

Subgenus **Agalliopsis** Kirk.
Orthotype *novella* Say

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 31, 1907.
Agallia group II, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.

1762. **Agallia novella** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 309, 1831; Compl. Writ., ii, p. 384, *Jassus.*
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890, *Idiocerus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
Slosson, Ent. News, vi, p. 321, 1895.
Gillette and Baker, Hemip. Colo., p. 80, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 54, pl. 1, fig. 2, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Van Duzee, Can. Ent., xl, p. 116, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 209, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Osborn, Me. Ag. Exp. Sta., Bul. 238, p. 96, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.

De Long, Tenn. St. Bd. Ent., Bul. 17, p. 13, 1916.
§*nobilis* Forbes, 14th Rept. Ill. St. Ent., p. 22, 1884, *Macropsis.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Va., N. C., Fla., Ohio, Mich., Ky., Tenn., Mo., Kans., Colo., Vanc. Isd.

1763. **Agallia oculata** Van D.

Van Duzee, Ent. Am., vi, p. 38, 1890.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 57, 1898.
Ball, Psyche, ix, p. 127, 1900.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 51, 1914.
Localities: Ont., N. Y., Calif.

Subgenus **Agallia** Curt.

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 11, 31, 1907.
Agallia Group I, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.

1764. **Agallia 4-punctata** Prov.

Provancher, Nat. Can., iv, p. 376, 1872, *Bythoscopus.*
Van Duzee, Ent. Am., v, p. 167, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 296, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
Gillette and Baker, Hemip. Colo., p. 80, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 48, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
De Long, Tenn. St. Bd. Ent., Bul. 17, p. 12, 1916.
[*flaccida* Uhl. MS] Van Duzee, Can. Ent., xxi, p. 9, 1889. [(young).
canadensis Van Duzee, Trans. Am. Ent. Soc., xix, p. 301, 1892, *Ulopa*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894 (young).
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio, Ky., Tenn., Ark., Kans., Neb., Ia., Colo., Br. Col., Calif.

1765. **Agallia constricta** Van D.

Van Duzee, Can. Ent., xxvi, p. 90, 1894.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 52, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
De Long, Tenn. St. Bd. Ent., Bul. 17, p. 13, 1916.
Localities: N. Y., N. J., Pa., N. C., Fla., Ky., Tenn., Miss., Mo., Kans., Texas.

1766. **Agallia deleta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Locality: Fla.

1766½. **Agallia immaculata** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 120, 1917.
Locality: S. C.
(Probably not distinct from preceding.)

Subgenus **Aceratagallia** Kirk.
Orthotype *sanguinolenta* Prov.

Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, pp. 11, 30, Sept., 1907.
Agallia Group III, Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 46, 1897.
¶*Ceratagallia* Kirkaldy, Haw. S. P. A., Exp. St. Bul., iv, p. 61, May, 1907.
[(Catalogue name.)

1767. **Agallia sanguinolenta** (Prov.)

Provancher, Nat. Can., iv, p. 376, 1872, *Bythoscopus*.
Van Duzee, Ent. Am., v, p. 166, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 296, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
Gillette and Baker, Hemip. Colo., p. 81, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 58, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 508, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Van Duzee, Can. Ent., xl, p. 116, 1908; xli, p. 128, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 103, fig. 29, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 97, 1915.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.
Gibson, Can. Ent., xlviii, p. 178, 1916.
Gibson, U. S. Dept. Agr., Farmer's Bul. 737, 1916.
De Long, Tenn. St. Bd. Ent., Bul. 17, p. 14, 1916.
siccifolius Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 359, 1876, *Bythoscopus*.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Bythoscopus*.
Van Duzee, Can. Ent., xxi, p. 9, 1889.
Localities: Quebec, Ont., Mass., N. Y., N. J., Pa., D. C., Md., Va., N. C., S. C., Fla., Ala., Miss., Ohio, Ky., Tenn., Ind., Ia., Mo., Kans., Ark., Neb., N. D., Colo., Wyo., Utah, N. Mex., Calif., Br. Col.

1768. **Agallia uhleri** Van D.

Van Duzee, Can. Ent., xxvi, p. 91, 1894.
Gillette and Baker, Hemip. Colo., p. 81, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 59, 1898.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
[*venata, enervis* and *longula* Uhler MS] (in collections).
Localities: Mo., Ia., Wyo., N. Mex., Ariz., Calif.

1769. **Agallia gillettei** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 60, 1898.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Localities: Mo., Ariz.

1770. **Agallia bigeloviae** Bak.

Baker, Psyche, vii, Suppl., i, p. 26, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 62, 1898 (*biglovia*).
Kirkaldy, Haw. S. P. A., Exp. St. Bul., iv, p. 61, 1907, *Ceratagallia*.
Localities: N. Mex., Ariz., Colo. (Mexico.)

1771. **Agallia cinerea** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 62, 1898.
Ball, Psyche, ix, p. 128, 1900.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 14, 1916.
inconspicuua Baker, Psyche, viii, p. 198, 1898 (as var. of *sanguinolenta*)
Localities: Tenn., Ia., Kans., Colo., Ariz., Calif.

1772. **Agallia californica** Bak.

Baker, Psyche, viii, p. 199, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech Bul., i, p. 248, 1916.
Locality: Calif.

1773. **Agallia lyrata** Bak.

Baker, Psyche, viii, p. 199, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 210, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
?peregrinans Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 64, 1898.
Ball, Psyche, ix, p. 128, 1900.
Localities: Fla.?, Calif., Vanc. Isd.

1774. **?Agallia peregrinans** Stål

Stål, Freg. Eug. Resa, Ins., p. 291, 1859, *Bythoscopus*.
Berg, Hemip. Arg., Add., p. 176, 1884.
Kirkaldy, Ann. Soc. Ent. Belg., li, p. 121, 1907.
Localities: Calif.(?). (Tahiti, Oahu.)
[This may be *lyrata* as suggested by Ball.]

[**Agallia variata** Uhl. MS]

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Locality: Fla.

Genus **Idiocerus** Lewis
Haplotype *adustus* H. S.

Lewis, Trans. Ent. Soc. Lond., i, p. 47, 1835.
Burmeister, Genera Ins., i, pl. 10, 1838 (*Bythoscopus*, subgenus).
Amyot and Serville, Hémip., p. 585, 1843.
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
Kirschbaum, Die Gatt. Idiocerus, pp. 3, 4, 1868.
Kirschbaum, Cicad. v. Wiesbd., pp. 16, 152, 1868.
Sahlberg, Cicad., pp. 69, 137, 1871.
Fieber, Cicad. d'Eur., i, p. 100, pl. 11, figs. 39, 40, 1875; ii, pl. 9, 1876.
Edwards, Ent. Mo. Mag., xx, p. 113, 1883 (table of British species).
Mayr, Tabellen, p. 26, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 114, pl. 2, fig. 4.
Ashmead, Ent. Am., v, p. 126, 1889.
Van Duzee, Ent. Am., v, p. 166, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 291, 1890.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 12, 1898. (Key.)
Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 29, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 184, 1908.

1775. **Idiocerus amoenus** Van D.

Van Duzee, Can. Ent., xxvi, p. 89, 1894 (*amoemus* by error).
Gillette and Baker, Hemip. Colo., p. 74, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 135, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

a. var. **depictus** Ball
Ball, Can. Ent., xxxiv, p. 313, 1902.
Localities: Colo., Calif.

1776. **Idiocerus amabilis** Ball

Ball, Can. Ent., xxxiv, p. 306, 1902.
Localities: Colo., Br. Col., Calif.

1777. **Idiocerus nervatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 194, 205, 1894.
Gillette and Baker, Hemip. Colo., p. 76, 1895.
Osborn and Ball., Proc. Dav. Acad. Sci., vii, p. 137, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.
Localities: N. Y., N. J., Pa., Fla., Mich., Ia., Mo., Kans., Colo., Ariz., Calif.

1778. **Idiocerus pallidus** Fitch

Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus*.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 359, 1876; iii, p. 465, 1877, *Bytho-*
Van Duzee, Can. Ent., xxi, p. 8, 1889. [*scopus.*
Provancher, Pet. Faune Ent. Can., iii, p. 291, 1889.
Van Duzee, Psyche, v, 388, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Gillette and Baker, Hemip. Colo., p. 76, 1895.
Slosson, Ent. News, vi, p. 5, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 135, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xl, p. 116, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.

obsoletus Walker, List Homop., iii, p. 873, 1851, *Bythoscopus.*

§*unicolor* Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Localities: Quebec, Ont., Me., N. H., Mass. N. Y., N. J., Pa., Tenn., Ia., Kans., Colo., Calif.

1779. **Idiocerus suturalis** Fitch

Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Slosson, Ent. News, vi, p. 5, 1895.
Gillette and Baker, Hemip. Colo., p. 80, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 134, 1898.
Ball, Can. Ent., xxxiv, p. 311, 1902.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Van Duzee, Can. Ent., xl, p. 116, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 94, 1915.

a. var. **lunaris** Ball
Ball, Can. Ent., xxxiv, p. 311, 1902.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.

b. var. **continuus** Ball
Ball, Can. Ent., xxxiv, p. 312, 1902.

c. var. **vagus** Ball
Ball, Can. Ent., xxxiv, p. 312, 1902.
Slosson, Ent. News, xvii, p. 326, 1906.

Localities: Quebec, Ont., Me., N. H., N. Y., Ohio, Mich.. Kans.. Colo., N. Mex., Manitoba.

1780. **Idiocerus duzeei** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 136, 1898.
Baker, Can. Ent., xxxii, p. 207, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
perplexus Gillette and Baker, Hemip. Colo., p. 78, 1895.
Baker, Ent. News, viii, p. 54, 1897.
Tucker, Univ. Kans. Sci. Bul., iv, p. 65, 1907.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.
Localities: Quebec, Ont., Me., N. H., Pa., Kans., Colo.

1781. **Idiocerus alternatus** Fitch

Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890.
Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Gillette and Baker, Hemip. Colo., p. 73, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 70, 131, pl. 3, fig. 1, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 506, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xl, p. 116, 1909; xliv, p. 329, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
interruptus Gillette and Baker, Hemip. Colo., p. 74, 1895.
Localities: Quebec, Ont., Me., N. H., N. Y., Pa., N. C., Ohio, Tenn., Mich., Ia., Colo., Utah, Calif.

1781½. **Idiocerus subnitens** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 82, 1917.
Locality: Wis.

1782. **Idiocerus verticis** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 308, 1831; Compl. Writ., ii, p. 383, *Jassus.*
Walker, List Homop., iv, p. 1164, 1852, *Jassus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 465, 1877, *Bythoscopus.*
Van Duzee, Psyche, v, p. 389, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892 (noticed).
Gillette and Baker, Hemip. Colo., p. 80, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 132, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 11, 1916.
Localities: Me., Tenn., Ia., Mo., Colo.

1783. **Idiocerus concinnus** Ball

Ball, Can. Ent., xxxiv, p. 306, 1902.
Localities: Calif., Vanc. Isd.

1784. **Idiocerus rufus** G. & B.

Gillette and Baker, Hemip. Colo., p. 80, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 133, 1898.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.

a. var. **cingulatus** Ball
Ball, Can. Ent., xxxiv, p. 312, 1902.
Locality: Colo.

1785. **Idiocerus musteus** Ball

Ball, Can. Ent., xxxiv, p. 308, 1902.
Localities: Calif., Vanc. Isd.

1786. **Idiocerus obstinatus** Ball

Ball, Can. Ent., xxxiv, p. 310, 1902.
Locality: Ariz.

1787. **Idiocerus morosus** Ball

Ball, Can. Ent., xxxiv, p. 309, 1902.
Locality: Colo.

1788. **Idiocerus verrucosus** Ball

Ball, Can. Ent., xxxiv, p. 309, 1902.
Localities: Colo., Calif.

1789. **Idiocerus ensiger** Ball

Ball, Can. Ent., xxxiv, p. 308, 1902.
Ball, Ohio Nat., iii, p. 399, 1903.
Localities: Colo., Calif.

1790. **Idiocerus productus** G. & B.

Gillette and Baker, Hemip. Colo., p. 78, 1895.
Baker, Can. Ent., xxxii, p. 208, 1900.
Slosson, Ent. News, xvii, p. 326, 1906.
Localities: N. H., Colo.

1791. **Idiocerus femoratus** Ball

Ball, Can. Ent., xxxiv, p. 307, 1902.
Localities: Colo., Calif.

1792. **Idiocerus moniliferae** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 71, 131, pl. 3, fig. 2, 1898.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Localities: Ia., Kans.

1793. **Idiocerus scurra** (Germ.)

Germar, Fauna Ins. Eur., xvii, p. 11, 1834, *Jassus.*
Herrich-Schaeffer, Nomen. Ent., i, pp. 69, 112, 1835, *Bythoscopus.*
Burmeister, Genera Ins., pl. 10, 1838 (listed).
Walker, List Homop., iii, p. 859, 1851, *Bythoscopus.*
Kirschbaum, Die Gattung Idiocerus, p. 18, 1868 (note).
Kirschbaum, Cicad. v. Wiesbd., p. 160, 1868 (note).

Melichar, Cicad. Mitt. Eur., p. 151, 1896.
♀*crenatus* Germar, Fauna Ins. Eur., xvii, p. 10, 1834, *Jassus.*
Kirschbaum, Cicad. v. Wiesbd., p. 167, 1868, *Bythoscopus.*
germari Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 451, 1868.
gemmisimulans Leonard and Crosby, Jl. Econ. Ent., viii, p. 542, pl. 30, 1915.
Localities: N. Y. (Europe.)

1794. **Idiocerus formosus** Ball

Ball, Can. Ent., xxxiv, p. 305, 1902.
Slosson, Ent. News, xvii, p. 326, 1906.
Localities: N. H., Colo., Calif.

1795. **Idiocerus lachrymalis** Fitch

Fitch, Homop. N. Y. St. Cab., p. 58, 1851.
Van Duzee, Can. Ent., xxi, p. 8, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Slosson, Ent. News, vi, p. 5, 1895.
Gillette and Baker, Hemip. Colo., p. 76, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 130, 1898.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xl, p. 116, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 95, 1915.
†*subbifasciatus* Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Colo., N. Mex.

1796. **Idiocerus ramentosus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 465, 1877, *Bythoscopus.*
Van Duzee, Psyche, v, p. 389, 1890.
Gillette and Baker, Hemip. Colo., p. 79, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 137, 1898.
inscriptus Uhler MS (in collections).
†*verticis* Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890.
mimicus Gillette and Baker, Hemip. Colo., p. 76, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898. [fig. 3, 1898.
brunneus Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 72, 129, pl. 3,
Localities: Ia., Neb., Colo., Ariz., Vanc. Isd.

1797. **Idiocerus snowi** G. & B.

Gillette and Baker, Hemip. Colo., p. 79, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 129, 1898.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.
Localities: N. Y., Ohio, Kans., Mo., Colo., Utah, Calif.

1798. **Idiocerus dolosus** Ball

Ball, Can. Ent., xxxiv, p. 304, 1902.
Locality: Colo.

1799. **Idiocerus distinctus** G. & B.

Gillette and Baker, Hemip. Colo., p. 75, 1895.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898.
Locality: Colo.

1800. **Idiocerus crataegi** Van D.

Van Duzee, Can. Ent., xxii, p. 110, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 128, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915.
Localities: Ont., N. Y., Pa., Ohio, Ia., Mo., Colo.

1801. **Idiocerus provancheri** Van D.

Van Duzee, Can. Ent., xxii, p. 111, 1890 (n.n. for †*clitellarius* Prov.).
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Slosson, Ent. News, vii, p. 265, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 127, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 77, 1916.
†*clitellarius* Provancher, Pet. Faune Ent. Can., iii, p. 288, 1890, *Bythoscopus*.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Pa., Ia., Colo., Br. Col.

1802. **Idiocerus fitchi** Van D.

Van Duzee, Can. Ent., xli, p. 383, 1909 (n.n. for *maculipennis* Fh.).
‖*maculipennis* Fitch, Homop. N. Y. St. Cab., p. 59, 1851.
Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus*.
Van Duzee, Psyche, v, p. 388, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 194, 1894.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 73, 127, pl. 3, fig. 4, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 507, 1905.
Localities: Ont., Me., N. Y., Pa., Ohio, Ia.

1803. **Idiocerus striola** Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvii, p. 453, 1868.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 138, 1898.
Ashmead, Harriman Alaska Exped., viii, p. 131, 1904.
Locality: Alaska.

Genus **Macropsis** Lewis
Logotype *virescens* (Gmel.)

Lewis, Trans. Ent. Soc. Lond., i, p. 49, 1835. [type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *virescens*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, pp. 30, 36, 1907.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Van Duzee, Check List Hemip., p. 64, 1916.
Pediopsis Burmeister, Gen. Ins., pl. 10, 1838.
Amyot and Serville, Hémip., p. 586, 1843.
Stål, Hemip. Afr., iv, p. 128, 1866.
Kirschbaum, Die Gat. Idiocerus, p. 4, 1868.
Kirschbaum, Cicad. v. Wiesbd., pp. 16, 169, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
Thomson, Opusc. Ent., i, p. 316, 1870.
Sahlberg, Cicad., pp. 68, 116, 1871.
Fieber, Cicad. d'Eur., i, p. 102, 1875; ii, pl. 9, 1876.
Mayr, Tabellen, p. 27, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 108.
Ashmead, Ent. Am., v, p. 125, 1889.
Van Duzee, Ent. Am., v, p. 167, 1889 (monograph).
Provancher, Pet. Faune Ent. Can., iii, p. 293, 1890.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 259, 1894 (catalogue).
Melichar, Cicad. Mitt. Eur., p. 139, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 111, 1898 (monograph).

1804. **Macropsis nubila** (Van D.)

Van Duzee, Ent. Am., vi, p. 37, 1890, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 123, 1898, *Bythoscopus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Locality: Calif.

1805. **Macropsis punctifrons** (Van D.)

Van Duzee, Ent. Am., v, p. 174, 1889, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 122, 1898, *Pediopsis.*
Locality: Ariz.

1806. **Macropsis reversalis** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 69, 123, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis.*
Localities: N. Y., Pa., Ia.

1807. **Macropsis gleditschiae** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 67, 122, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 218, 1904, *Pediopsis.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 16, 1916, *Pediopsis.*
Localities: Pa., Tenn., Ia., Mo.

1808. **Macropsis virescens** (Gmel.)

Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2111, 1788 (*Cicada*).
Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada.*

Germar, Mag. d. Ent., iv, p. 45, 1821, *Jassus.*
Fallén, Hemip. Suec., Cicad., p. 52, 1826, *Cicada.*
Herrich-Schaeffer, Nom. Ent., i, p. 69, 1835, *Bythoscopus.*
Lewis, Trans. Ent. Soc. Lond., i, p. 50, pl. 8, fig. 3, 1835.
Burmeister, Genera Ins., pl. 10, 1838, *Pediopsis.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (as type).
Amyot and Serville, Hémip., p. 586, 1843, *Pediopsis.*
Walker, List Homop., iii, p. 861, 1851, *Bythoscopus.*
Flor, Rhyn. Livl., ii, p. 188, 1861, *Pediopsis.*
Kirschbaum, Cicad. v. Wiesbd., p. 175, 1868, *Pediopsis.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 458, 1868, *Pediopsis.*
Scott, Ent. Mo. Mag., x, p. 189, 1874, *Pediopsis.*
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 114, *Pediopsis.*
Melichar, Cicad. Mitt. Eur., p. 142, pl. 8, figs. 15–18, 1896, *Pediopsis.*
Edwards, Hemip. Homop. Brit. Isds., p. 96, pl. 11, fig. 9, 1896, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis.*

a. var. **graminea** (Fabr.)
Fabricius, Ent. Syst. Suppl., p. 521, 1798, *Cicada.*
Fabricius, Syst. Rhyng., p. 77, 1803, *Cicada.*
Germar, Mag. d. Ent., iv, p. 81, 1821, *Jassus.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 459, 1868, *Pediopsis.*
Oshanin, Verz. Palae. Hemip., ii, p. 73, 1906, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis.*
Localities: N. Y., Me. (Europe.)

1809. **Macropsis viridis** (Fitch)
Fitch, Homop. N. Y. St. Cab., p. 59, 1851, *Pediopsis.*
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Pediopsis.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis.*
Van Duzee, Ent. Am., v, p. 170, 1889, *Pediopsis.*
Van Duzee, Psyche, v, pp. 238, 388, 1890, *Pediopsis.*
Provancher, Pet. Faune Ent. Can., iii, p. 294, 1890, *Pediopsis.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 259, 1894, *Pediopsis.*
Gillette and Baker, Hemip. Colo., p. 73, 1895, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 121, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Pediopsis.*
Van Duzee, Can. Ent., xl, p. 116, 1908, *Pediopsis.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis.*
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 89, 1915, *Pediopsis.*

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915, *Pediopsis.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 16, 1916, *Pediopsis.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., Md., N. C., Tenn., Mo., Kans., Ia., Colo.

1810. **Macropsis occidentalis** (Van D.)

Van Duzee, Psyche, v, p. 238, 1889, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 121, 1898, *Pediopsis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Localities: Nevada, Calif.

1811. **Macropsis suturalis** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 67, 119, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 92, 1915, *Pediopsis.*
Localities: Me., N. Y., Pa., Ia.

1812. **Macropsis crocea** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 68, 120, 1898, *Pediopsis.*
Locality: Ky.

1813. **Macropsis trivialis** (Ball)

Ball, Can. Ent., xxxiv, p. 304, 1902, *Pediopsis.*
Ball, Ohio Nat., iii, p. 398, 1913, *Pediopsis.*
Locality: Colo.

1814. **Macropsis erythrocephalus** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 120, 1898, *Pediopsis.*
Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Pediopsis.*
Locality: Colo.

1815. **Macropsis basalis** (Van D.)

Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis.*
Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 119, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 505, 1905, *Pediopsis.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis.*
Van Duzee, Can. Ent., xl, p. 116, 1909, *Pediopsis;* xliv, p. 329, 1912.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis.*

a. var. **fumipennis** (G. & B.)

Gillette and Baker, Hemip Colo., p. 73, 1895, *Pediopsis.*
Localities: Quebec, Ont., Me., N. Y., Pa., Ia., Colo.

1816. **Macropsis bicolor** (Osb.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 90, 1915, *Pediopsis.*
Locality: Me.

1817. **Macropsis canadensis** (Van D.)

Van Duzee, Can. Ent., xxii, p. 111, 1890, *Pediopsis* (n.n. for †*flavescens* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis.* [Van D.).
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 118, 1898, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis.*
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915, *Pediopsis.*
†*flavescens* Van Duzee, Ent. Am., v, p. 173, 1889, *Pediopsis.*
Localities: Quebec, Ont., Me., N. Y.

1818. **Macropsis bifasciata** (Van D.)

Van Duzee, Ent. Am., v, p. 173, 1889, *Pediopsis.*
Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 118, 1898, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Van Duzee, Can. Ent., xl, p. 116, 1908, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 93, 1915, *Pediopsis.*
Localities: Quebec, Ont., Me., N. Y., Pa., Ia., Colo.

1819. **Macropsis nigricans** Van D.

Van Duzee, Check List Hemip., p. 64, 1916 (n.n. for †*trimaculata* Van D.).
†*trimaculata* Van Duzee, Ent. Am., v, p. 172, 1889, *Pediopsis.*
Van Duzee, Psyche, v, p. 388, 1890, *Pediopsis.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 260, 1894, *Pediopsis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Pediopsis.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis.*
†*bifasciata* Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis.*
Localities: Ont., N. Y.

1820. **Macropsis ferrugineoides** (Van D.)

Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 66, 117, pl. 2, fig. 4, 1898,
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 92, 1915, *Pediopsis.* [*Pediopsis.*
†*bifasciata* Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pediopsis.*
Localities: Me., Ia., Neb., Colo., Mont.

1821. **Macropsis trimaculata** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Pediopsis.*
Walker, List. Homop., iv, p. 1162, 1852, *Bythoscopus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 116, 1898, *Pediopsis.*
Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Pediopsis.*
Van Duzee, Can. Ent., xli, p. 383, 1909, *Pediopsis;* xliv, p. 329, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 91, 1915, *Pediopsis.*
insignis Van Duzee, Ent. Am., v, p. 171, 1889, *Pediopsis.*
Van Duzee, Can. Ent., xxii, p. 249, 1890, *Pediopsis.*
Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Pediopsis.*
Localities: Quebec, Ont., Me., N. Y., Pa., Mich., Ia., Kans., Colo.

1822. **Macropsis sordida** (Van D.)

Van Duzee, Can. Ent., xxvi, p. 89, 1894, *Pediopsis.*
Gillette and Baker, Hemip. Colo., p. 73, 1895, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 116, 1898, *Pediopsis.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Pediopsis.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 91, 1915, *Pediopsis.*
Localities: Me., N. J., Colo.

1823. **Macropsis tristis** (Van D.)

Van Duzee, Can. Ent., xxii, p. 249, 1890, *Pediopsis.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Pediopsis.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, pp. 66, 115, pl. 2, fig. 3, 1898,
Ball, Ohio Nat., iii, p. 398, 1903, *Pediopsis.* [*Pediopsis.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Pediopsis.*
Localities: Pa., Ia., Colo.

Genus **Oncopsis** Burm.
Logotype *flavicollis* (Linn.)

Burmeister, Genera Ins., pl. 10, 1838. [type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *flavicollis*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, p. 30, 1907.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Bythoscopus Amyot and Serville, Hémip., p. 584, 1843.
Kirschbaum, Die Gatt. Idiocerus, p. 4, 1868.
Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xviii, p. 450, 1868.
Fieber, Kat. Eur., Cicad., p. 8, 1872.
Fieber, Cicad. d'Eur., i, p. 102, 1875; ii, pl. 9, 1876.
Berg, Hemip. Arg., p. 276, 1879.
Mayr, Tabellen, p. 27, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 105.
Ashmead, Ent. Am., v, p. 126, 1889.
Van Duzee, Ent. Am., vi, p. 221, 1890 (monograph).
Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 257, 1894.
Melichar, Cicad. Mitt. Eur., p. 136, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 87, 1896.
†*Athysanus* Fitch, Homop. N. Y. St. Cab., p. 60, 1851.
†*Macropsis* Kirkaldy, Entomol., xxxiv, p. 240, 1901.

1824. **Oncopsis variabilis** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus.*
Walker, List Homop., iii, p. 876, 1851, *Bythoscopus.*
Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 853, 1858, *Athysanus.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis.*
Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus.*
Van Duzee, Ent. Am., vi, p. 223, 1890, *Bythoscopus.*
Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus.*
Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 257, 1894, *Bythoscopus.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., v. p, 194, 1894, *Bythoscopus.*
Slosson, Ent. News, v, p. 265, 1896, *Bythoscopus.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 501, 1905, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
abietis Fitch, Homop., N. Y. St. Cab., p. 60, 1851, *Athysanus.*
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 748, 1857, *Athysanus.*
Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 854, 1858, *Athysanus.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus.*
Packard, 5th Rept. U. S. Ent. Comm., pp. 512, 854, 1890, *Athysanus.*
?*flavus* Walker, List Homop., iii, p. 875, 1851, *Bythoscopus.*
†*clitellarius* Provancher, Nat. Can., iv, p. 377, 1872, *Macropsis.*
§*variegatus* Provancher, Pet. Faune Ent. Can., iii, p. 289, 1889, *Bythoscopus.*

a. var. **coloradensis** (Bak.)
Baker, Psyche, viii, p. 198, 1898, *Bythoscopus.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C., Colo., Calif., Br. Col.

1825. **Oncopsis sobrius** (Walk.)

Walker, List Homop, iii, p. 874, 1851, *Bythoscopus.*
Van Duzee, Ent. Am., vi, p. 224, 1890, *Bythoscopus.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus.*
Slosson, Ent. News, v, p. 5, 1894, *Bythoscopus.*
Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 502, 1905, *Bythoscopus.*
Van Duzee, Can. Ent., xl, p. 115, 1908, *Bythoscopus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.
Localities: Quebec, Ont., Me., N. H., N. Y.

1826. **Oncopsis cognatus** (Van D.)

Van Duzee, Ent. Am., vi, p. 225, 1890, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Slosson, Ent. News, xiii, p. 321, 1902, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Bythoscopus.*
Van Duzee, Can. Ent., xl, p. 116, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 89, 1915.
Localities: Quebec, Ont., Me., N. H., N. Y., Manitoba.

1827. **Oncopsis truncatus** (Bak.)

Baker, Psyche, viii, p. 198, 1898, *Bythoscopus.*
Locality: Mich.

1828. **Oncopsis fitchi** Van D.

Van Duzee, Check List. Hemip., p. 65, 1916 (n.n. for *fenestratus* Fh.).
‖*fenestratus* Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus.*

Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 853, 1858, *Athysanus.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Pediopsis.*
Van Duzee, Psyche, v, p. 390. 1890, *Bythoscopus.*
Van Duzee, Ent. Am., vi, p. 225, 1890, *Bythoscopus.*
Provancher, Pet. Faune Ent. Can., iii, p. 289, 1890, *Bythoscopus.*
Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 258, 1894, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Gillette and Baker, Hemip. Colo., p. 72, 1895, *Bythoscopus.*
Slosson, Ent. News, vii, p. 265, 1896, *Bythoscopus.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus.*
Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C., Colo.

1829. **Oncopsis pruni** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 290, 1890, *Bythoscopus.*
Van Duzee, Ent. Am., vi, p. 226, 1890, *Bythoscopus.*
Harrington, Ottawa Nat., vi, p. 31, 1892, *Bythoscopus.*
Slosson, Ent. News, v, p. 5, 1894, *Bythoscopus.*
Harrington, Can. Ent., xxvi, p. 16, 1894, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Gillette and Baker, Hemip. Colo., p. 72, 1895, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Bythoscopus.*
Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 87, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.

Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Colo., Sask., Calif., Br. Col.

1830. **Oncopsis minor** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 60, 1851, *Athysanus.*
Walker, List Homop., iii, p. 876, 1851, *Bythoscopus.*
Fitch, Trans. N. Y. St. Agr. Soc., xviii, p. 583, 1858, *Athysanus.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 551, 1869, *Athysanus.*
Van Duzee, Ent. Am., vi, p. 227, 1890, *Bythoscopus.*
Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus.*
Packard, 5th Rept. U. S. Ent. Comm., p. 512, 1890, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 88, 1915.
ocellatus Provancher, Nat. Can., iv, p. 377, 1872, *Macropsis.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Md.

1831. **Oncopsis nigrinasi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Athysanus.*
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Van Duzee, Psyche, v, p. 390, 1890, *Bythoscopus.*
Van Duzee, Ent. Am., vi, p. 228, 1890, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 503, 1905, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*
Van Duzee, Can. Ent., xliv, pp. 328, 329, 1912.
Osborn, Me. Ag. Exp. Sta., Bul. 238, p. 89, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
flavescens Provancher, Nat. Can., iv, p. 376, 1872, *Pediopsis.*
Provancher, Pet. Faune Ent. Can., iii, p. 295, 1890, *Pediopsis.*
†*fenestratus* Provancher, Pet. Faune Ent. Can., iii, p. 289, 1890, *Bythoscopus.*
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Md., N. C.

1832. **Oncopsis fagi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Athysanus.*
Walker, List Homop., iv, p. 1162, 1852, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Bythoscopus.*
Locality: N. Y.

1833. **Oncopsis distinctus** (Van D.)

Van Duzee, Ent. Am., vi, p. 224, 1890, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 195, 1894, *Bythoscopus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 65, 1898, *Bythoscopus.*
Wirtner, Ann. Carn. Mus., iii, p. 217, 1904, *Bythoscopus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 504, 1905, *Bythoscopus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Bythoscopus.*
Smith, Cat. Ins. N. J., edn. 3, p. 102, 1910, *Bythoscopus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 71, 1915, *Bythoscopus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 17, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 15, 1916, *Bythoscopus.*
Localities: Ont., N. Y., N. J., Pa., Md., N. C., Ohio, Tenn., Ill., Mo., Kans.

Genus **Straganiopsis** Bak.
Orthotype *idioceroides* Bak.

Baker, Invert. Pacif., i, p. 10, 1903.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 31, 1907.

1834. **Straganiopsis idioceroides** (Bak.)

Baker, Psyche, ix, p. 55, 1900, *Macropsis.*
Locality: N. Mex.

Genus **Bythoscopus** Germ.
Logotype *lanio* (Linn.)

Germar, Silb. Rev. Ent., i, p. 180, 1833.
Kirkaldy, Entomol., xxxiv, p. 340, 1901.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 345, 1906; iii, p. 31, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 190, 1908.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.

†*Jassus* Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815.
Fallén, Hemip. Suec., Cicad., p. 58, 1826 (names *lanio* pseudotype).

Batracomorphus Lewis, Trans. Ent. Soc. Lond., i, p. 51, 1835.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
Kirkaldy, Entomol., xxxiv, p. 219, 1901 (names *irroratus* type).

†*Macropsis* Amyot and Serville, Hémip., p. 585, 1843.
Fieber, Verh. Zool.-Bat. Ges. Wien, xviii, p. 449, 1868.
Stål, Hemip. Afr., iv, p. 126, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868.
Sahlberg, Cicad., p. 113, 1871.
Fieber, Cicad. d'Eur., i, p. 101, 1875.
Mayr, Tabellen, p. 26, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 104.
Ashmead, Ent. Am., v, p. 126, 1889.
Van Duzee, Ent. Am., v, p. 165, 1889.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 256, 1894.
Ball, Psyche, ix, p. 128, 1900.
Oshanin, Verz. Palae. Hemip., ii, p. 67, 1906.
Oshanin, Kat. Palae. Hemip., p. 101, 1912.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 9, 1916.

Stragania Stål, Rio Jan. Hemip., ii, p. 49, 1862.
Fowler, Biol. Centr. Am., Homop., ii, p. 316, 1903.

Pachyopsis Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 466, 1877. (Type
Ashmead, Ent. Am., v, p. 126, 1889. [*laetus* Uhl.)
Van Duzee, Ent. Am., v, p. 165, 1889.

Gargaropsis Fowler, Biol. Centr. Am., Homop., ii, p. 167, 1896.

1835. **Bythoscopus laetus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 466, 1877, *Pachyopsis.*
Gillette and Baker, Hemip. Colo., p. 71, 1895, *Pachyopsis.*
Ball, Ohio Nat., iii, p. 397, 1903, *Macropsis.*

a. var. **paetus** Ball.
Ball, Psyche, ix, p. 130, 1900, *Macropsis.*
Locality: Colo.

1836. **Bythoscopus apicalis** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 64, pl. 2, fig. 1, 1898, *Macropsis.*
Ball, Psyche, ix, p. 129, 1900, *Macropsis.*
Gibson, Ohio Jl. Sci., xvi, p. 71, 1915, *Macropsis.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 9, 1916.

alabamensis Baker, Psyche, ix, p. 58, 1900, *Macropsis.*
Localities: Ala., Ohio, Tenn., Ia., Neb., Kans., Mo.

1837. **Bythoscopus robustus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Pachyopsis.*
Gillette and Baker, Hemip. Colo., p. 72, 1895, *Pachyopsis.*
Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 209, 1909, *Macropsis.*

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Localities: Fla., Ala., La., Texas, N. Mex., Ariz., Colo., Calif.

1838. **Bythoscopus misellus** (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 85, 1864, *Stragania.*
Ball, Psyche, ix, p. 129, 1900, *Macropsis.*
Baker, Invert. Pacif., i, p. 11, 1903 (copies Stål's description).
Localities: Colo.(?), N. Mex.(?). (Mexico.)

1839. **Bythoscopus rufoscutellatus** (Bak.)

Baker, Psyche, ix, p. 58, 1900, *Macropsis.*
Localities: Colo., Nev.

1840. **Bythoscopus bisignatus** (Ball)

Ball, Can. Ent., xxxiv, p. 303, 1902, *Macropsis.*
Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis.*
Locality: Colo.

1841. **Bythoscopus franciscanus** (Bak.)

Baker, Invert. Pacif., i, p. 12, 1903, *Macropsis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Locality: Calif.

1842. **Bythoscopus humilis** (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 85, 1864, *Stragania.*
Baker, Invert. Pacif., i, p. 11, 1903, *Macropsis* (copies Stål's description).
Ball, Ohio Nat., iii, p. 398, 1903, *Macropsis.*
Localities: Colo. (Mexico.)

1843. **Bythoscopus ater** (Bak.)

Baker, Psyche, ix, p. 56, 1900, *Macropsis.*
Ball, Psyche, ix, p. 130, 1900, *Macropsis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
♀*magnus* Baker, Psyche, ix, p. 57, 1900, *Macropsis.*
Locality: Calif.

1844. **Bythoscopus californicus** (Bak.)

Baker, Psyche, ix, p. 57, 1900, *Macropsis.*
Ball, Psyche, ix, p. 129, 1900, *Macropsis.*
Localities: Colo., Calif.

1845. **Bythoscopus grandis** (Ball)

Ball, Can. Ent., xli, p. 186, 1909, *Macropsis.*
Localities: Colo., Utah, Ariz.

Subfamily CICADELLINAE Van D.

Van Duzee, Check List Hemip., p. 65, 1916.
Tettigonioideae Spinola, Tavola Sinot., pp. 56, 57, 1850.
Sahlberg, Cicad., p. 67, 1871, *Tettigonides.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876, *Tettigonidae.*
Mayr, Tabellen, p. 28, 1884, *Tettigonidae.* [(Family.)
Osborn, Ent. Am., i, p. 26, 1885, *Tettigonidae.* (Family.)

Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Tettigonidae.* (Family.)
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887, *Tettigonidae.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Tettigonidae.*
Tettigoniellidae Melichar, Wien. Ent. Zeit., xxiv, p. 298, 1905. [(Family.)
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 98, 1915. (Key.)
Tetigoninae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906.

TRIBE *CICADELLINI* Van D.

Van Duzee, Check List Hemip., p. 65, 1916.
Tettigonidcs Amyot and Serville, Hémip., p. 569, 1843.
Walker, List Homop., iii, p. 732, 1851.
Dohrn, Cat. Hemip., p. 88, 1859, *Tettigonidae.*
Fieber, Cat. Eur. Cicad., p. 9, 1872, *Tettigoninae.*
Fieber, Cicad. d'Eur., i, p. 106, 1875, *Tettigonidae.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 45, 1879.
Berg, Hemip. Arg., p. 249, 1879, *Tettigoniina.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Tettigoniina.*
Fowler, Biol. Centr. Am., Homop., ii, p. 207, 1897, *Tettigoniidae.*
Ball, Proc. Ia. Acad. Sci., viii, p. 38, 1901, *Tettigoniina.*
Oshanin, Verz. Palae. Hemip., ii, p. 50, 1906, *Tettigoniina.*
Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 72, 1906, *Tettigoninae.*
Proconiida Stål, Hemip. Fabr., ii, p. 79, 1869.
Stål, Of. Vet. Akad. Forh., xxvii, p. 733, 1870, *Proconiina.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887, *Proconina.*
Tetigoniini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906; iii, [pp. 85, 86, 1907.
Tettigoniellini Jacobi Sitz. Ges. Nat. Freund. for 1905, p. 165.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 200, 1908. [*goniellinae.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914, *Tetti-*

Genus **Oncometopia** Stål
Logotype *undata* (Fabr.)

Stål, Hemip. Fabr., ii, pp. 60, 62, 1869.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 14, 1887.
Fowler, Biol. Centr. Am., Homop., ii, p. 227, 1899.
Ball, Proc. Ia. Acad. Sci., viii, p. 41, 1901.
†*Proconia* Amyot and Serville, Hémip., p. 571, 1843. [1854.
Tettigonia Groupe I, ser. 3, Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 357,

1846. **Oncometopia undata** (Fabr.)

Fabricius, Ent. Syst., iv, p. 32, 1794, *Cicada.*
Fabricius, Ent. Syst., Suppl., p. 516, 1798, *Cicada.*
Coquebert, Illust. Icon. Ins., i, p. 32, pl. 8, fig. 3, 1799, *Cicada.*
Fabricius, Syst. Rhyng., p. 62, 1803, *Cicada.*
Germar, Mag. d. Ent., iv, p. 61, 1821, *Tettigonia.*
Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia.*
Blanchard, Hist. des Ins., Hémip., p. 192, 1840, *Cicada.*
Walker, List Homop., iii, p. 783, 1851, *Proconia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 486, pl. 17, fig. 5, 1854, *Tettigonia.*
Stål, Hemip. Fabr., ii, p. 62, 1869.
Riley, Am. Ent., i, p. 19, 1869, *Proconiae.*
Uhler, Stand. Nat. Hist., ii, p. 248, 1884.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 15, pl. 2, figs. 10–14, 1887.
Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889, *Proconia.*
Harrington, Ottawa Nat., vi, p. 31, 1892.
Fowler, Biol. Centr. Am., Homop., ii, p. 231, pl. 14, figs. 19, 20, 1899.
Ball, Proc. Ia. Acad. Sci., viii, p. 41, 1901.
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 18, 1916.

orbona Fabricius, Ent. Syst., Suppl., p. 520, 1798, *Cicada.*
Fabricius, Syst. Rhyng., p. 72, 1803, *Cicada.* [*Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 485, pl. 17, fig. 3, 1854.
Walker, List Homop., Suppl., p. 225, 1858, *Proconia.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 265, 1894.

nigricans Walker, List. Homop., iii, p. 783, 1851, *Proconia.*

clarior Walker, List Homop., iii, p. 784, 1851, *Proconia.*

lucernea Walker, List Homop., iii, p. 785, 1851, *Proconia.*
Walker, List Homop., Suppl., p. 225, 1858, *Proconia.*

marginata Walker, List Homop., iii, p. 785, 1851, *Proconia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 487, 1854, *Tettigonia.*

badia Walker, List Homop., iii, p. 786, 1851, *Proconia.*
Walker, List Homop., Suppl., p. 225, 1858, *Proconia.*
Van Duzee, Ent. News, v, p. 157, 1894, *Gypona?* [*Proconia.*

scutellata Walker, List Homop., iii, p. 786, 1851; Suppl., p. 225, 1858,

tenebrosa Walker, List Homop., iii, p. 787, 1851, *Proconia.*

plagiata Walker, List Homop., iii, p. 788, 1851, *Proconia.*

alpha Fowler, Biol. Centr. Am., Homop., ii, p. 232, pl. 14, fig. 22, 1899.

?*obtusa* Fabricius, Ball, Proc. Ia. Acad. Sci., viii, p. 43, 1901.
Fowler, Biol. Centr. Am., Homop., ii, p. 228, 1899.
Osborn, Ohio Nat., ix, p. 460, 1909.

a. var. **garryae** Ckl.
Cockerell, Ann. Mag. Nat. Hist., ser. 7, xii, p. 453, 1903.
Localities: Quebec, Mass., N. J., Pa., N. C., Ga., Fla., Texas, N. Mex. (Mexico.)

1847. **Oncometopia lateralis** (Fabr.)

Fabricius, Ent. Syst., Suppl., p. 524, 1798, *Cercopis.*
Coquebert, Illust. Icon. Ins., i, p. 35, pl. 9, fig. 3, 1799, *Cercopis.*
Fowler, Biol. Centr. Am., Homop., ii, p. 241, pl. 15, fig. 18, 1899.
Ball, Proc. Ia. Acad. Sci., viii, p. 44, 1901.
Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 61, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 99, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 18, 1916. [*alis* Fabr.
marginella Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis* (n.n. for *later-*
Kirby *in* Richardson, Fauna Bor. Am., iv, p. 285, 1837, *Cercopis.*
costalis Fabricius, Syst. Rhyng., errata, 1803 (n.n. for *marginella* Fabr.).
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 359, pl. 12, fig. 8, 1854, *Tetti-*
Walker, List Homop., Suppl., p. 224, 1858, *Proconia.* [*gonia.*
Stål, Hemip. Fabr., ii, p. 118, 1869.
Uhler, Wheeler's Surv. 100th Merid., v, p. 842, 1875, *Proconia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876; iii, p. 459, 1877;
[iv, p. 510, 1878, *Proconia.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Proconia.*
Uhler, Stand. Nat. Hist., ii, p. 249, 1884, *Proconia.*
Woodworth, Bul. Ill St. Lab. Nat. Hist., iii, p. 17, 1887.
Van Duzee, Can. Ent., xxi, p. 9, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889, *Proconia.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Proconia.*
Harrington, Ottawa Nat., vi, p. 31, 1892.
Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Proconia.*
Slosson, Ent. News, v, p. 5, 1894.
Van Duzee, Ent. News, v, p. 156, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 265, 1894.
Gillette and Baker, Hemip. Colo., p. 81, 1895.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907.
Van Duzee, Can. Ent., xl, p. 157, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
striata Walker, List Homop., iii, p. 775, 1851, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, i, p. 682, 1853, *Tettigonia.*
lugens Walker, List Homop., iii, p. 775, 1851, *Tettigonia.*
pyrrhotelus Walker, List Homop., iii, p. 775, 1851, *Tettigonia.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., N. C., Fla., Kans.,
Colo., Utah, N. Mex., Ariz., Calif., Br. Col.

a. var. **limbata** (Say)
Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1825; Compl. Writ., ii, p. 258, *Tetti-*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 821, 1855, *Tettigonia.* [*gonia.*
Van Duzee, Psyche, v, p. 389, 1890.
Ball, Proc. Ia. Acad. Sci., viii, p. 45, 1901.
septentrionalis Walker, List Homop., Suppl., p. 193, 1858, *Tettigonia.*
Localities: Mich., Mo., Dak., Ia., Colo., Calif., Br. Am.

Genus **Homalodisca** Stål

Logotype *triquetra* (Fabr.)

Stål, Hemip. Fabr., ii, pp. 60, 63, 1869.
Ball, Proc. Ia. Acad. Sci., viii, p. 46, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 80, 1908 (cites *triquetra* as type).

1848. **Homalodisca triquetra** (Fabr.)

Fabricius, Syst. Rhyng., p. 63, 1803, *Cicada.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 240, 1855, *Tettigonia.*
Walker, List Homop., Suppl., p. 243, 1858, *Ciccus.*
Stål, Hemip. Fabr., ii, p. 64, 1869.
Weed, Can. Ent., xxiv, p. 278, 1892.
Ball, Proc. Ia. Acad. Sci., viii, p. 47, pl. 2, fig. 1, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 80, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 19, 1916.
vitripennis Germar, Mag. d. Ent., iv, p. 61, 1821, *Tettigonia.*
Burmeister, Handb. d. Ent., ii, p. 120, 1835, *Tettigonia.*
Walker, List Homop., iii, p. 799, 1851, *Ciccus.* [*Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 493, pl. 17, fig. 10, 1854,
Walker, List Homop., Suppl., p. 225, 1858, *Proconia.*
Fowler, Biol. Centr. Am., Homop., ii, p. 221, pl. 14, fig. 1, 1899, *Phera.*
coagulata Say, Ins. of La., p. 13, 1832; Compl. Writ., i, p. 307, *Tettigonia.*
Stål, Stet. Ent. Zeit., xxv, p. 78, 1864, *Phera.*
Stål, Hemip. Fabr., ii, p. 64, 1869.
Riley and Howard, Insect Life, v, pp. 150–154, 1893.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915. [11, 1854, *Tettigonia.*
?ichthyocephala Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 494, pl. 17, fig.
admittens Walker, List Homop., Suppl., p. 227, 1858, *Proconia.*
aurigena Walker, List Homop., Suppl., p. 228, 1858, *Proconia.*
excludens Walker, Ins. Saund., Homop., p. 98, 1858, *Proconia.*
Localities: S. C., Ga., Fla., Ala., Miss., La., Texas, Mo.

1849. **Homalodisca liturata** Ball

Ball, Proc. Ia. Acad. Sci., viii, p. 48, pl. 2, fig. 2, 1901.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914.
Localities: Ariz., Calif.

1850. **Homalodisca insoleta** (Walk.)

Walker, List Homop., Suppl., p. 227, 1858, *Proconia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 49, pl. 2, fig. 3, 1901.
Localities: Texas, Ariz.

Genus **Aulacizes** A. & S.
Haplotype *quadripunctata* (Germ.)

Amyot and Serville, Hémip., p. 571, 1843.
Stål, Hemip. Fabr., ii, p. 61, 1869.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 18, 1887.
Fowler, Biol. Centr. Am., Homop., ii, p. 214, 1898.
Ball, Proc. Ia. Acad. Sci., viii, p. 39, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 74, 1908 (cites *4-punctata* as type).
Tettigonia Groupe II, Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 731, 1854.

1851. **Aulacizes irrorata** (Fabr.)

Fabricius, Ent. Syst., iv, p. 33, 1794, *Cicada.*
Coquebert, Illust. Icon. Ins., i, p. 32, pl. 8, fig. 4, 1799, *Cicada.*

Latreille *in* Cuvier, Règne Animal., iii, p. 406, 1817.
Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia.*
Blanchard, Hist. des Ins., Hémip., p. 192, 1840, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 59, pl. 6, fig. 14, 1855, *Tettigonia.*
Walker, List Homop., Suppl., p. 236, 1858.
Stål, Hemip. Fabr., ii, p. 64, 1869.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 19, pl. 2, figs. 15–18, 1887.
Ball, Proc. Ia. Acad. Sci., viii, p. 40, 1901.
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 18, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, 1916.

nigripennis Fabricius, Ent. Syst., iv, p. 32, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 69, 1803, *Cicada.*
Burmeister, Handb. d. Ent., ii, p. 119, 1835, *Tettigonia.*
Walker, List Homop., iii, p. 783, 1851, *Proconia?*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 491, 1854, *Tettigonia.*

rufiventris Walker, List Homop., iii, p. 796, 1851; Suppl., p. 236, 1858.
Localities: N. Y., N. J., Pa., Md., N. C., S. C., Fla., Ala., Ohio, Ky., Tenn., Ill., Mo., Texas. (Mexico.)

1852. **Aulacizes pollinosa** Fowl.

Fowler, Biol. Centr. Am., Homop., ii, p. 218, pl. 13, fig. 18, 1899.
Ball, Proc. Ia. Acad. Sci., viii, p. 40, 1901.

?guttata Uhler, Stand. Nat. Hist., ii, p. 248, 1884.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 211, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914.
Localities: Fla.(?). (Mexico.)

Genus **Cicadella** Latr.
Orthotype *viridis* (Linn.)

Latreille *in* Cuvier, Règne Animal., iii, p. 406, 1817 (n.n. for *Cicada* Fabr.).
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 223, 1829.
Gray *in* Griffith's Animal Kingd., xv, p. 226, 1832.
Percheron *in* Guerin, Dicty. Hist. Nat., p. 176, 1836.
Latreille *in* Cuvier Animal Kingd., Lond. edn., iv, p. 176, 1836.
Kirkaldy, Can. Ent., xxxix, p. 249, 1907; xlii, p. 65, 1910.
Van Duzee, Check List Hemip., p. 66, 1916.

§*Tetigonia* Geoffroy, Hist. Abreg. des Ins., i, p. 429, 1762.
Fourcroy, Ent. Paris., p. 193, 1785.

Tettigonia Reaumur, Mémoires, v, p. 150, 1740 (pre-linnean).
Olivier, Encyc. Méth., iv, p. 49, 1789.
Latreille, Hist. Nat. Crust. Ins., iii, p. 261, 1801; xii, p. 319, 1804.
Germar, Mag. d. Ent., iv, pp. 38, 57, 1821.
Le Peletier and Serville, Encyc. Méth., x, p. 600, 1825.
Germar, Silb. Rev. Ent., i, p. 180, 1833.
Burmeister, Handb. d. Ent., ii, p. 117, 1835.

Blanchard, Hist. des Ins., Hémip., p. 189, 1840.
Amyot and Serville, Hémip., p. 569, 1843.
Signoret, Ann. Soc. Ent. Fr., ser. 3, i, p. 323, 1853 (Groupe I, ser. 2).
Stål, Rio Jan. Hemip., ii, p. 38, 1862.
Stål, Hemip. Afr., iv, pp. 100, 115, 1866.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868.
Stål, Hemip. Fabr., ii, p. 61, 1869.
Sahlberg, Cicad., p. 104, 1879.
Fieber, Cicad. d'Eur., i, p. 107, 1875.
Berg, Hemip. Arg., p. 250, 1879.
Mayr, Tabellen, p. 29, 1884.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 20, 1887.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 15.
Provancher, Pet. Faune Ent. Can., iii, p. 262, 1889.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 271, 1894.
Fowler, Biol. Centr. Am., Homop., ii, p. 235, 1899.
Ball, Proc. Ia. Acad. Sci., viii, p. 49, 1901.

†*Cicada* Fabricius, Syst. Ent., p. 682, 1775.
Fabricius, Ent. Syst., iv, p. 27, 1794.
Fabricius, Syst. Rhyng., p. 61, 1803.
Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1830.
Zetterstedt, Fauna Lapp., p. 517, 1828.

Amblycephalus Curtis, Brit. Ent., i, p. 193, 1833.

Tettigonia Kirkaldy, Entomol., xxxiii, p. 238, 1900; xxxvii, p. 256, 1904.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 318, 1906.
Kirkaldy, Can. Ent., xxxix, p. 249, 1907; xlii, p. 63, 1910.

Tettigoniella Jacobi, Zool. Jahrb., xix, p. 778, 1903.
Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 516, 1908.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 201, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909; x, p. 510, 1912.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 19, 1916.

1853. **Cicadella viridis** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada.*
Geoffroy, Hist. Abreg. des Ins., i, p. 417, No. 5, 1862, *Cicada.*
Scopoli, Ent. Carn., p. 115, 1763, *Cicada.*
Fabricius, Syst. Ent., p. 685, 1775, *Cicada.*
Goeze, Ent. Beytr., ii, p. 142, 1778, *Cicada.*
Fabricius, Spec. Ins., ii, p. 326, 1781, *Cicada.*
Fourcroy, Ent. Paris., i, p. 185, 1785, *Cicada.*
Fabricius, Mant. Ins., ii, p. 271, 1787, *Cicada.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2114, 1788, *Cicada.*
Panzer, Fauna Germ., iii, pt. 32, pl. 9, 1796, *Cicada.*
Fabricius, Syst. Rhyng., p. 75, 1803, *Cicada.*
Latreille, Genera Crust. Ins., iii, p. 161, 1807, *Tettigonia.*
Leach *in* Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Cicada.*
Germar, Mag. d. Ent., iv, p. 72, 1821, *Cicada.*
Fallén, Hemip., Suec., Cicad., p. 28, 1826, *Cicada.*
Burmeister, Handb. d. Ent., ii, p. 118, 1835, *Tettigonia.*
Curtis, Brit. Ent., xii, pl. 572, 1835, *Amblycephalus.*
Walker, List Homop., iii, p. 768, 1851, *Tettigonia.*

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 17, pl. 2, fig. 3, 1854, *Tettigonia.*
Flor, Rhyn. Livl., ii, p. 145, 1861, *Tettigonia.*
Kirschbaum, Cicad. v. Wiesbd., p. 72, 1868, *Tettigonia.*
Sahlberg, Cicad., p. 105, 1871, *Tettigonia.*
Provancher, Pet. Faune Ent. Can., iii, p. 263, 1889, *Tettigonia.*
Melichar, Cicad. Mitt. Eur., p. 177, 1896, *Tettigonia.*
Edwards, Hemip. Homop. Brit. Isds., p. 115, pl. 14, figs. 1, 12, 1896, *Tettigonia.*
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Localities: Quebec. (Europe.)

1854. **Cicadella hieroglyphica** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 313, 1831; Compl. Writ., ii, p. 387, *Tetti-*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 805, 1855, *Tettigonia.* [*gonia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 460, 1877, *Tettigonia.*
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1334, *Tettigonia.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 510, 1878, *Tettigonia.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 26, 1887, *Tettigonia.*
Gillette and Baker, Hemip. Colo., p. 81, 1895, *Tettigonia.*
Ball, Proc. Ia., Acad. Sci., viii, p. 51, 1901, *Tettigonia.*
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903, *Tettigonia.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Tettigonia.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 52, 1914, *Tettigoniella.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella.*

a. var. **dolobrata** (Ball)

Ball, Proc. Ia. Acad. Sci., viii, p. 52, pl. 3, fig. 2, 1901, *Tettigonia.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella.*

b. var. **uhleri** (Ball)

Ball, Proc. Ia. Acad. Sci., viii, p. 52, pl. 3, fig. 3, 1901, *Tettigonia.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Tettigoniella.*

c. var. **confluens** (Uhler)

Uhler, Proc. Acad. Nat. Sci. Phila., xiii, p. 285, 1862, *Proconia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 53, pl. 3, fig. 4, 1901, *Tettigonia.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Tettigoniella.*
Localities: Tenn., Ill., Mo., Ia., Neb., Kans., Wyo., Idaho, Utah, Colo., N. Mex., Texas, Ariz., Calif., Ore., Wash., Vanc. Isd.

1855. **Cicadella gothica** (Sign.)

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 345, pl. 11, fig. 6, 1854, *Tettigonia.*
Walker, List Homop., Suppl., p. 193, 1858, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 54, pl. 4, fig. 1, 1901, *Tettigonia.*
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia.*
Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Tettigonia.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Tettigonia.*
Van Duzee, Can. Ent., xl, p. 157, 1908, *Tettigonia.*
Van Duzee, Can. Ent., xli, p. 383, 1909, *Tettigoniella.*
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Tettigoniella.*
Van Duzee, Can. Ent., xliv, p. 327, 1912, *Tettigoniella.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914, *Tettigoniella.*

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella.*
Osborn, Me. Agr. Exp. Sta., Bul., 238, p. 100, 1915, *Tettigoniella.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Tettigoniella.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 21, 1916, *Tettigoniella.* [*gonia.*
†*hieroglyphica* Harris, Hitchcock's Geol. Mass., edn. 2, p. 580, 1835, *Tetti-*
Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889, *Diedrocephala.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Tettigonia.*
Harrington, Can. Ent., xxvi, p. 16, 1894, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Tettigonia.* [*gonia.*
‖*similis* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 25, 1887, *Tetti-*
Van Duzee, Ent. News, v, p. 156, 1894, *Tettigonia.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 231, 1897, *Tettigonia.*
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Tenn., Kans., Mo.

1856. **Cicadella circellata** (Bak.)

Baker, Psyche, viii, p. 285, 1898, *Tettigonia.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914, *Tettigoniella.*
Essig, Inj. Benef. Ins. Calif., edn. 2, p. 66, 1915, *Tettigoniella.*
†*atropunctata* Ball, Proc. Ia. Acad. Sci., viii, p. 55, pl. 4, fig. 2, 1901, *Tetti-*
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904, *Tettigonia.* [*gonia.*
Localities: Ariz., Calif.

1857. **Cicadella dohrnii** (Sign.)

Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 792, pl. 24, fig. 13, 1855, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 56, pl. 4, fig. 3, 1901, *Tettigonia.*
aurora Baker, Psyche, viii, p. 286, 1898, *Tettigonia.* [*Tettigonia.*
delicata Fowler, Biol. Centr. Am., Homop., ii, p. 269, pl. 18, fig. 5, 1900,
Localities: Ariz. (Mexico.)

1858. **Cicadella occatoria** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 311, 1831; Compl. Writ., ii, p. 385,
Walker, List Homop., iv, p. 1157, 1852, *Tettigonia.* [*Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 353, pl. 12, fig. 2, 1854, *Tettigonia.*
Stål, Stet. Ent. Zeit., xxv, p. 75, 1864, *Tettigonia.*
Fowler, Biol. Centr. Am., Homop., ii, p. 279, pl. 18, fig. 29, 1900, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 57, pl. 4, fig. 4, 1901, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909, *Tettigoniella.*
Osborn, Ohio Nat., ix, p. 462, 1909, *Tettigoniella.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 531, 1914, *Tettigoniella.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 21, 1916, *Tettigoniella.* [*Tettigonia.*
compta Fowler, Biol. Centr. Am., Homop., ii, p. 271, pl. 18, fig. 11, 1900,
Localities: N. C., Fla., Miss., Tenn., Mo., Texas. (Mexico.)

Genus **Kolla** Dist.
Orthotype *insignis* Dist.

Distant, Fauna Brit. Ind., Rhyn., iv, p. 223, 1908.
Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 529, 1908.

1859. **Kolla bifida** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 313, 1831; Compl. Writ., ii, p. 387,
Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Tettigonia.* [*Tettigonia.*

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 11, pl. 1, fig. 11, 1854, *Tettigonia.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 27, 1887, *Tettigonia.*
Provancher, Pet. Faune Ent. Can., iii, p. 338, 1890, *Helochara.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Tettigonia.*
Van Duzee, Ent. News, v, p. 156, 1894, *Tettigonia.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 175, 1897, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 58, pl. 5, fig. 1, 1901, *Tettigonia.*
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia.*
Osborn, 20th Rept. N. Y. St. Ent., p. 509, 1905, *Tettigonia.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 66, 1907, *Tettigonia.*
Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 530, 1908, *Tettigonia.*
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910.
Osborn, U. S. Dept. Agr., Ent. Bul. 108, p. 63, 1912, *Tettigonia.*
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 99, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 22, 1916.
tenella Walker, List Homop., iii, p. 770, 1851, *Tettigonia.*
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Miss., Mo., Tenn., Neb., Kans

a. var. **fasciata** (Walk.)
Walker, List Homop., iii, p. 780, 1851, *Tettigonia.* [1900, *Tettigonia.*
fuscolinecella Fowler, Biol. Centr. Am., Homop., ii, p. 290, pl. 19, fig. 25,
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 212, 1909.
Osborn, Ohio Nat., ix, p. 461, 1909, *Tettigoniella.*
Localities: Fla. (West Indies, Mexico.)

1860. **Kolla geometrica** (Sign.)
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 12, pl. 1, fig. 12, 1854, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 59, pl. 5, fig. 2, 1901, *Tettigonia.*
Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 530, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.
Osborn, Ohio Nat., ix, p. 461, 1909, *Tettigoniella.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 23, 1916. [1900, *Tettigonia.*
psittacella Fowler, Biol. Centr. Am., Homop., ii, p. 290, pl. 19, fig. 26,
Localities: D. C., Fla., Ohio, Ky., Tenn., Ill., Mo., Ark., La. (Neotropical.)

1861. **Kolla hartii** (Ball)
Ball, Proc. Ia. Acad. Sci., viii, p. 61, pl. 5, fig. 4, 1901, *Tettigonia.*
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Tettigoniella.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 20, 1916, *Tettigoniella.*
Localities: Pa., Fla., Miss., Ohio, Ill., Tenn., Mo., Texas, N. Mex.

1862. **Kolla similis** (Walk.)
Walker, List Homop., iii, p. 769, 1851, *Tettigonia.*
Van Duzee, Ent. News, v, p. 155, 1894, *Tettigonia.*

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907, *Tettigonia.*
Osborn, Ohio Nat., ix, p. 462, 1909, *Tettigoniella.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.

†*herbida* Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 18, pl. 2, fig. 4, 1854, Stål, Rio Jan. Hemip., ii, p. 42, 1862, *Tettigonia.* [*Tettigonia.*
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 77, *Tettigonia.*
Distant, Ann. Mag. Nat. Hist., ser. 8, i, p. 529, 1908; ii, p. 62, 1908.

†*communis* Walker, List Homop., Suppl., p. 235, 1858, *Helochara.*

prolixa Fowler, Biol. Centr. Am., Homop., ii, p. 275, pl. 18, fig. 18, 1900, Localities: Fla. (West Indies, Mexico.) [*Tettigonia.*

Genus **Helochara** Fitch
Haplotype *communis* Fitch

Fitch, Homop. N. Y. St. Cab., p. 56, 1851.
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 730, 1854.
Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889.
Ball, Proc. Ia. Acad. Sci., viii, p. 62, 1901.

1863. **Helochara communis** Fitch

Fitch, Homop. N. Y. St. Cab., p. 56, 1851.
Walker, List Homop., iv, p. 1156, 1852, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 730, pl. 21, fig. 17, 1854.
Walker, List Homop., Suppl., p. 235, 1858.
Packard, Guide to Study of Ins., p. 532, 1869.
Packard, Am. Nat., ii, p. 53, 1876.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 460, 1877.
Van Duzee, Can. Ent., xxi, p. 9, 1899.
Provancher, Pet. Faune Ent. Can., iii, p. 268, 1889.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
Slosson, Ent. News, v, p. 5, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
Van Duzee, Ent. News, v, p. 155, 1894.
Gillette and Baker, Hemip. Colo., p. 82, 1895.
Ball, Proc. Ia. Acad. Sci., viii, p. 62, pl. 6, fig. 1, 1901.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 62, 1908 (excl. synon.).
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 60, fig. 5, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 103, 1915.
De Long, Tenn. St. Bd. Ent., Bul. 17, p. 24, 1916.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
herbida Walker, List Homop., iii, p. 769, 1851, *Tettigonia.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., N. C., Ga., Tenn., Texas, Colo., N. Mex., Ariz., Calif.

Genus **Graphocephala** Van D.
Orthotype *coccinea* (Forst.)

Van Duzee, Check List Hemip., p. 66, 1916.
†*Diedrocephala* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 22, 1877
Provancher, Pet. Faune Ent. Can., iii, p. 265, 1889. [(as subgenus).
Ball, Proc. Ia. Acad. Sci., viii, p. 63, 1901.

1864. **Graphocephala coccinea** (Forst.)

Forster, Nov. Spec. Ins., p. 69, 1771, *Cicada.*
Harris *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia.*
Rathvon *in* Mombert's Hist. Lanc. Co., Pa., p. 581, 1869, *Tettigonia.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 357, 1876, *Diedrocephala.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 23, 1887, *Diedrocephala.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Diedrocephala.*
Provancher, Pet. Faune Ent. Can., iii, p. 267, 1889, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 28, 1890, *Diedrocephala.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Diedrocephala.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala.*
Van Duzee, Ent. News, v, p. 155, 1894, *Diedrocephala.*
Slosson, Ent. News, vi, p. 321, 1895, *Diedrocephala.*
Ball, Proc. Ia. Acad. Sci., iv, p. 177, 1897, *Diedrocephala.*
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Diedrocephala.*
Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Diedrocephala.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Diedrocephala.*
Van Duzee, Can. Ent., xxxviii, p. 409, 1906, *Diedrocephala.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Diedrocephala.*
Van Duzee, Can. Ent., xl, p. 157, 1908, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 213, 1909, *Diedrocephala.*
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 60, 1912, *Diedrocephala.*
Van Duzee, Can. Ent., xliv, p. 327, 1912, *Diedrocephala.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Diedrocephala.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Diedrocephala.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Diedrocephala.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 101, 1915, *Diedrocephala.*
De Long, Tenn. St. Bd. Ent., Bul. 17, p. 25, 1916, *Diedrocephala.*
Gibson, Can. Ent., xlviii, p. 178, 1916, *Diedrocephala.* [ii, p. 386, *Tettigonia.*
quadrivittata Say, Jl. Acad. Nat. Sci. Phila., vi, p. 312, 1831; Compl. Writ.,
Harris *in* Hitchcock's Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia.*
Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Proconia.*
Walker, List Homop., iv, p. 1155, 1852, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 348, pl. 11, fig. 11, 1854, [*Tettigonia* (*Diedrocephala*).
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 450, 1856, *Aulacizes.*
Rathvon *in* Mombert, Hist. Lanc. Co., Pa., p. 581, 1869, *Tettigonia.*
Packard, Guide to Study of Ins., p. 532, 1869, *Proconia.*

Glover, U. S. Dept. Agr., Rept. for 1876, p. 33, *Diedrocephala.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Diedrocephala* (var.).
Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 20, 1900, *Tetti-*
picta Walker, List Homop., iii, p. 758, 1851, *Tettigonia.* [*gonia.*
?idonea Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 18, 1900,
[*Tettigonia.*

a. var. **teliformis** (Walk.)
Walker, List Homop., iii, p. 764, 1851, *Tettigonia.*
Van Duzee, Ent. News, v, p. 155, 1894, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909, *Diedrocephala.*
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C., Fla., Ohio, Tenn., Mo., Kans., Okl., Texas.

1865. **Graphocephala versuta** (Say)
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 311, 1831; Compl. Writ., ii, p. 386, *Tetti-*
Walker, List Homop., iv, p. 1157, 1852, *Tettigonia.* [*gonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 348, pl. 11, fig. 10, 1854, *Tettigonia.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 22, 1887, *Diedrocephala.*
Van Duzee, Psyche, v, p. 390, 1890, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 27, 1890, *Diedrocephala.*
Weed, Can. Ent., xxiv, p. 278, 1892, *Diedrocephala.*
Ball, Proc. Ia. Acad. Sci., viii, p. 64, pl. 6, fig. 3, 1901, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909, *Diedrocephala.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Diedrocephala.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915, *Diedrocephala.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915, *Diedrocephala.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 25, 1916, *Diedrocephala.*
Gibson, Can. Ent., xlviii, p. 177, 1916, *Diedrocephala.* [*Tettigonia.*
redacta Fowler, Biol. Centr. Am., Homop., ii, p. 276, pl. 18, fig. 21, 1900,
Localities: Md., D. C., Va., N. C., Ga., Fla., Ala., Miss., La., Ohio, Ill., Ky., Tenn., Mo., Texas.

a. var. **lineiceps** Spin.
Spinola *in* Gay, Hist. de Chili, Zool., vii, p. 283, 1852, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 786, 1855, *Tettigonia.*
Walker, List Homop., Suppl., p. 354, 1858, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 65, pl. 6, fig. 4, 1901, *Diedrocephala.*
Osborn, Ohio Nat., ix, p. 463, 1909, *Diedrocephala.*
Localities: Texas. (Neotropical.)

1866. **Graphocephala cythura** (Bak.)
Baker, Psyche, viii, p. 268, 1898, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 66, pl. 6, fig. 5, 1901, *Tettigonia* (as var.).
Localities: Ariz., Calif.

Genus **Draeculacephala** Ball
Orthotype *mollipes* (Say)

Ball, Proc. Ia. Acad. Sci., viii, p. 66, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 60, 1908.
Van Duzee, Ent. News, xxvi, p. 176, 1915. (Key.)
†*Diedrocephala* Uhler, Stand. Nat. Hist., ii, p. 249, 1884.

1867. **Draeculacephala floridana** Ball
Ball, Proc. Ia. Acad. Sci., viii, p. 72, pl. 6, fig. 6, 1901.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Ent. News, xxvi, p. 177, 1915.
Localities: Ga., Fla.

1868. **Draeculacephala 7-guttata** (Walk.)
Walker, List Homop., iii, p. 773, 1851, 1851, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 727, pl. 21, fig. 15, 1854, *Diedro-*
Walker, List Homop., Suppl., p. 223, 1858, *Diedrocephala.* [*cephala.*
Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.*
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.
Van Duzee, Ent. News, xxvi, p. 177, 1915.
Localities: N. C., Ga., Fla., Miss.

1869. **Draeculacephala balli** Van D.
Van Duzee, Ent. News, xxvi, p. 177, 1915. [of *mollipes*).
†*7-guttata* Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 2, 1901 (as var.
Localities: Ga., Fla., Miss.

1870. **Draeculacephala acuta** (Walk.)
Walker, List Homop., iii, p. 773, 1851, *Tettigonia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Ent. News, xxvi, p. 177, 1915.
Locality: Fla.

1871. **Draeculacephala bradleyi** Van D.
Van Duzee, Ent. News, xxvi, pp. 178, 180, 1915.
Locality: Ga.

1872. **Draeculacephala producta** (Walk.)
Walker, List Homop., iii, p. 772, 1851, *Tettigonia.*
Locality: Fla.

1873. **Draeculacephala angulifera** (Walk.)
Walker, List Homop., iii, p. 771, 1851, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 727, pl. 21, fig. 14, 1854, *Diedro-*
Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.* [*cephala.*
Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 4, 1901.
Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
Van Duzee, Ent. News, xxvi, p. 178, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 102, 1915; Bul. 248, p. 78, 1916.
Diedrocephala sp. Southwick, Science, xix, p. 318, 1892.
Localities: N. Fndl., Quebec, Ont., Me., N. Y., Pa., Ohio, Ia., Kans., Colo., Utah, Wash., Br. Col.

1874. **Draeculacephala mollipes** (Say)
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 312, 1831; Compl. Writ., ii, p. 386, [*Tettigonia.*
Harris *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia* (*mellipes*).
Fitch, Homop. N. Y. St. Cab., p. 56, 1851, *Aulacizes.*

Walker, List Homop., iv, p. 1156, 1852, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 726, pl. 21, figs. 12, 13, 1854, *Diedro-*
Walker, List Homop., Suppl., p. 233, 1858, *Diedrocephala.* [*cephala.*
Stål, Stet. Ent. Zeit., xxv, p. 77, 1864, *Tettigonia.*
Packard, Guide to Study of Ins., p. 532, 1869, *Aulacizes.*
Glover, U. S. Dept. Agr., Rept. for 1876, p. 32, *Aulacizes.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 459, 1877, *Diedro-*
Uhler, Stand. Nat. Hist., ii, p. 249, 1884, *Diedrocephala.* [*cephala.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 24, 1887, *Tettigonia.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Diedrocephala.*
Van Duzee, Psyche, v, p. 390, 1890, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 26, 1890, *Diedrocephala.*
Osborn, Rept. Ia. St. Agr. Soc. for 1892, p. 687, *Diedrocephala.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Diedrocephala.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Diedrocephala.*
Weed, Can. Ent., xxv, p. 278, 1892, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 46, 1893, *Diedrocephala.*
Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Diedrocephala.*
Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala.*
Fowler, Biol. Centr. Am., Homop., ii, p. 273, pl. 18, fig. 15, 1900, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 67, pl. 7, fig. 1, 1901.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Distant, Ann. Mag. Nat. Hist., ser. 8, ii, p. 61, 1908.
Van Duzee, Can. Ent., xl, p. 157, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Osborn, Ohio Nat., ix, p. 463, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 56, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Swezey, Proc. Haw. Ent. Soc., iii, pp. 4, 9, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 103, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.
Van Duzee, Ent. News, xxvi, p. 178, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916.
Gibson, Can. Ent., xlviii, p. 177, 1916.

?innotata Walker, List Homop., iii, p. 770, 1851, *Tettigonia.*
Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.*

antica Walker, List Homop., iii, p. 771, 1851, *Tettigonia.*
Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.*

viridis Provancher, Nat. Can., iv, p. 352, 1872, *Acopsis.*

†*viridis* Provancher, Pet. Faune Ent. Can., iii, p. 268, 1889, *Acopsis.*

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., N. C., Fla., Ohio, Tenn., Mo., Kans., Colo., Ariz., N. Mex., Calif., Br. Col. (Hawaiian Isds.)

1875. **Draculacephala minor** (Walk.)

Walker, List Homop., iii, p. 772, 1851, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 69, pl. 7, fig. 3, 1901.
Osborn, Ohio Nat., ix, p. 463, 1909.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Ent. News, xxvi, p. 178, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916.
†*producta* Van Duzee, Ent. News, v, p. 156, 1894, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 279, 1894, *Diedrocephala.*
Localities: Fla., Colo., Calif., Wash.

1876. **Draeculacephala inscripta** Van D.

Van Duzee, Ent. News, xxvi, pp. 178, 180, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 26, 1916.
Localities: Ga., Tenn.

1877. **Draeculacephala manitobiana** Ball

Ball, Proc. Ia. Acad. Sci., viii, p. 70, pl. 7, fig. 5, 1901.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Van Duzee, Ent. News, xxvi, p. 178, 1915.
Localities: Ont., Manitoba, Colo.

1878. **Draeculacephala crassicornis** Van D.

Van Duzee, Ent. News, xxvi, pp. 178, 181, 1915.
Localities: Calif., Oreg., Wash.

1879. **Draeculacephala noveboracensis**

Fitch, Homop. N. Y. St. Cab., p. 56, 1851, *Aulacizes.*
Walker, List Homop., iv, p. 1158, 1852, *Tettigonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 19, pl. 2, fig. 5, 1854, *Diedrocephala.*
Walker, List Homop., Suppl., p. 192, 1858, *Tettigonia.* [*cephala.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 459, 1877, *Diedro-*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 24, 1887, *Tettigonia.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Diedrocephala.*
Van Duzee, Psyche, v, p. 390, 1890, *Diedrocephala.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 22, p. 27, 1890, *Diedrocephala.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Diedrocephala.*
Southwick, Science, xix, p. 318, 1892, *Diedrocephala.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Diedrocephala.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894, *Diedrocephala.*
Van Duzee, Ent. News, v, p. 155, 1894, *Diedrocephala.*
Gillette and Baker, Hemip. Colo., p. 82, 1895, *Diedrocephala.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 177, 1897, *Diedrocephala.*
Ball, Proc. Ia. Acad. Sci., viii, p. 71, pl. 7, fig. 6, 1901.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 511, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906; xl, p. 157, 1908.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 59, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 101, 1915.
Van Duzee, Ent. News, xxvi, p. 179, 1915.

prasina Walker, List Homop., iii, p. 768, 1851, *Tettigonia.*

†*mollipes* Provancher, Pet. Faune Ent. Can., iii, p. 266, 1889, *Diedrocephala.*

Localities: Quebec, Ont., Me., Vt., Mass., N. H., N. Y., Pa., Md., Ia., Mo., Neb., Colo., Idaho, Wash., Br. Col., Vanc. Isd.

1880. **Draeculacephala gillettei** Ball

Ball, Proc. Ia. Acad. Sci., viii, p. 72, 1901.
Van Duzee, Ent. News, xxvi, p. 179, 1915.
Locality: Colo.

1881. **Draeculacephala reticulata** (Sign.)

Signoret, Ann. Soc. Ent. Fr., ser. 3, ii, p. 22, pl. 2, fig. 10, 1854, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 73, pl. 6, fig. 8, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Osborn, Ohio Nat., ix, p. 463, 1909.
Osborn, U. S. Dept. Agr., Div. Ent. Bul. 108, p. 52, 1912.
Barber, Bul. Am. Nat. Hist., xxxiii, p. 532, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 20, 1915.
Van Duzee, Ent. News, xxvi, p. 179, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 27, 1916, *Diedrocephala.*

flaviceps Riley, Am. Ent., iii, p. 78, 1880, *Diedrocephala.*
Johnson and Fox, Ent. News, iii, p. 60, 1892, *Tettigonia.*
Howard, Insect Life, vi, p. 267, 1894, *Diedrocephala.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914, *Diedrocephala.*

diducta Fowler, Biol. Centr. Am., Homop., ii, p. 274, pl. 18, fig. 17, 1900, [*Tettigonia.*

Localities: Va., N. C., S. C., Ga., Fla., Ala., Miss., La., Mo., Ky., Tenn., Neb., Texas, Ariz., Calif. (West Indies, Mexico.)

[*Tettigonia coerulenta* Sign. is not from our territory. *See* Ball, Proc. Ia. [Acad. Sci., viii, p. 50, 1901]

Genus **Pagaronia** Ball
Haplotype *13-punctata* Ball

Ball, Can. Ent., xxxiv, p. 19, 1902.

1882. **Pagaronia 13-punctata** Ball

Ball, Can. Ent., xxxiv, p. 20, 1902.

a. var. **triunata** Ball
Ball, Can. Ent., xxxiv, p. 20, 1902.

b. var. **octopunctata** Kirk.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 70, 1909.
Locality: Calif.

1883. **Pagaronia tripunctata** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 55, 1851, *Tettigonia.*
Walker, List Homop., iv, p. 1158, 1852, *Tettigonia.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 28, 1887, *Tettigonia.*
Provancher, Pet. Faune Ent. Can., iii, p. 263, 1889, *Tettigonia.*

Van Duzee, Ent. News, v, p. 157, 1894, *Tettigonia.*
Ball, Proc. Ia. Acad. Sci., viii, p. 60, pl. 5, fig. 3, 1901, *Tettigonia.*
Wirtner, Ann. Carn. Mus., iii, p. 219, 1904, *Tettigonia.*
Osborn, 20th Rept. N. Y. St. Ent., p. 510, 1905, *Tettigonia.*
Smith, Cat. Ins. N. J., edn. 3, p. 100, 1910, *Tettigoniella.*
Van Duzee, Can. Ent., xliv, p. 327, 1912, *Kolla.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 72, 1915, *Kolla.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 19, 1915, *Kolla.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 24, 1916, *Kolla.*
Van Duzee, Check List Hemip., p. 67, 1916.

Localities: Ont., N. H., N. Y., N. J., Pa., Md., D. C., N. C., Miss., Ohio, Ill., Tenn., Mo.

Genus **Evacanthus** L. & S.
Logotype *interruptus* Linn.

Le Peletier and Serville, Encyc. Méth., x, p. 612, 1825.
Germar, Silb. Rev. Ent., i, p. 180, 1833.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *interruptus* [type).
Blanchard, Hist. des Ins., Hémip., p. 193, 1840.
Amyot and Serville, Hémip., p. 574, 1843.
Spinola, Tavola Sinot., p. 57, 1850.
Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889, *Evacantha.*
‡*Euacanthus* Burmeister, Handb. d. Ent., ii, p. 116, 1835.
Herrich-Schaeffer, Nomen. Ent., i, p. 67, 1835.
Flor, Rhyn. Livl., ii, p. 147, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 17, 72, 1868.
Stål, Hemip. Fabr., ii, p. 61, 1869.
Sahlberg, Cicad., p. 106, 1871.
Fieber, Cicad. d'Eur., i, p. 109, 1875; ii, pl. 10, 1876.
Mayr, Tabellen, p. 29, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 13.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 281, 1894, *Eucanthus.*
Melichar, Cicad. Mitt. Eur., p. 178, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 113, 1896.
Oshanin, Verz. Palae. Hemip., i, p. 53, 1906.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 227, 1908.
Van Duzee, Check List Hemip., p. 67, 1916, *Eucanthus.*

1884. **Evacanthus acuminatus** (Fabr.)

Fabricius, Ent. Syst., iv, p. 36, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 76, 1803, *Cicada.*
Germar, Mag. d. Ent., iv, p. 72, 1821, *Tettigonia.*
Burmeister, Handb. d. Ent., ii, p. 116, 1835.
Herrich-Schaeffer, Nomen. Ent., i, p. 67, 1835.
Blanchard, Hist. des Ins., Hémip., p. 193, 1840.
Flor, Rhyn. Livl., ii, p. 152, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 73, 1868.
Sahlberg, Cicad., p. 108, 1871.
Melichar, Cicad. Mitt. Eur., p. 179, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 113, pl. 13, fig. 10, 1896.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 182, pl. 19, fig. 3, 1897.

Ball, Ia. Agr. Exp. Sta., Bul. 34, p. 618, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Ashmead, Harriman Alaska Exped., viii, p. 131, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Kirkaldy, Can. Ent., xli, p. 32, 1909.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 104, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
interstincta Fallén, Hemip. Suec., Cicad., p. 29, 1826, *Cicada.*
Kirkaldy, Can. Ent., xli, p. 32, 1909.
germari Curtis, Ent. Mag., i, p. 192, 1833, *Amblycephalus.*
Curtis, Brit. Ent., xii, pl. 572, 1835, *Amblycephalus.*
orbitalis Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
Walker, List Homop., iv, p. 1159, 1852, *Tettigonia.*
Van Duzee, Can. Ent., xxi, p. 9, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 196, 1894.
Slosson, Ent. News, xiii, p. 321, 1902.
Localities: Quebec, Ont., Me., N. H., N. Y., Pa., D. C., N. C., Mich., Ia., Wash., Vanc. Isd.

1885. **Evacanthus interruptus** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 438, 1758, *Cicada.*
Geoffroy, Hist. Abreg. des Ins., i, p. 419, No. 9, 1762, *Cicada.*
De Geer, Mémoires, iii, p. 183, No. 7, pl. 12, fig. 6, 1773, *Cicada.*
Fabricius, Syst. Ent., p. 685, 1775, *Cicada.*
Goeze, Ent. Beytr., ii, p. 139, 1778, *Cicada.*
Fabricius, Spec. Ins., ii, p. 325, 1781, *Cicada.*
Retzius, Genera et Spec. Ins., p. 82, 1783, *Cicada.*
Fabricius, Mant. Ins., ii, p. 270, 1787, *Cicada.*
Gmelin, *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2107, 1788, *Cicada.*
Fabricius, Ent. Syst., iv, p. 36, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 76, 1803, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 28, 1826, *Cicada.*
Burmeister, Hand. d. Ent., ii, p. 116, 1835.
Herrich-Schaeffer, Nomen. Ent., i, p. 67, 1835.
Blanchard, Hist. des Ins., Hémip., p. 193, 1840.
Flor, Rhyn. Livl., ii, p. 149, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 72, 1868.
Sahlberg, Cicad. p. 107, 1871.
Melichar, Cicad. Mitt. Eur., p. 178, pl. 8, fig. 29, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 113, pl. 13, fig. 9, 1896.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 183, 1897.
Localities: N. C., S. C. (Europe.)

Genus **Bathysmatophorus** Sahlb.
Haplotype *reuteri* Sahlb.

Sahlberg, Cicad., p. 109, 1871.
Fieber, Cicad. d'Eur., i, p. 108, 1875; ii, pl. 10, 1876.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 81, 1907.

1886. **Bathysmatophorus uhleri** Bak.

Baker, Psyche, viii, p. 260, 1898.
Locality: Calif.

Genus **Errhomenellus** Put.
Haplotype *brachypterus* Fieb.

Puton, Cat. Palae. Hemip., edn. 3, p. 79, 1886 (n.n. for *Errhomenus* Fieb.).
Oshanin, Verz. Palae. Hemip., ii, p. 97, 1906.
‖*Errhomenus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 501, 1866.
Fieber, Cicad. d'Eur., i, p. 104, 1875; ii, pl. 10, 1876.
Mayr, Tabellen, p. 28, 1884.
Melichar, Cicad. Mitt. Eur., p. 185, 1896.

1887. **Errhomenellus montanus** Bak.
Baker, Psyche, viii, p. 262, 1898.
Locality: Colo.

1888. **Errhomenellus lineatus** Bak.
Baker, Psyche, viii, p. 261, 1898.
Locality: Wash.

1889. **Errhomenellus oregonensis** Bak.
Baker, Psyche, viii, p. 262, 1898.
Locality: Ore.

1890. **Errhomenellus friscanus** Ball
Ball, Can. Ent., xli, p. 182, 1909.
Locality: Calif.

1891. **Errhomenellus irroratus Ball**
Ball, Can. Ent., xxxiv, p. 18, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Locality: Calif.

1892. **Errhomenellus maculatus** (G. & B.)
Gillette and Baker, Hemip. Colo., p. 83, 1895, *Acocephalus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Colo., Calif.

1893. **Errhomenellus aridus** Ball
Ball, Can. Ent., xli, p. 183, 1909.
Locality: Nev.

Subfamily GYPONINAE (Stål)

Stål, Of. Vet. Akad. Forh., xxvii, p. 736, 1870, *Gyponina* (part).
Berg, Hemip. Argent., p. 257, 1879, *Gyponina.*
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, pp. 14, 29, 1887, *Gyponina.*
Ashmead *in* Smith, Cat. Ins. N. J., edn. 1, p. 443, 1890.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892; xxi, p. 281, 1894, *Gyponina.*
Fowler, Biol. Centr. Am., Homop., ii, p. 293, 1903.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 240, 1908.
Scarides Amyot and Serville, Hémip., pp. lxiv, 576, 1843.
Dohrn, Cat. Hemip., p. 92, 1859, *Scaridae.* [iii, p. 80, 1907.
Penthimiinae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 307, 1906;

Genus **Penthimia** Germ.
Haplotype *nigra* (Goez.)

Germar, Mag. d. Ent., iv, p. 46, 1821.
Gray *in* Griffith's Animal Kingd., xv, p. 226, 1832.

Germar, Silb. Rev. Ent., i, p. 179, 1833.
Burmeister, Handb. d. Ent., ii, pp. 105, 115, 1835.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
Amyot and Serville, Hémip., p. 580, 1843.
Walker, Cat. Homop., iii, p. 840, 1851.
Flor, Rhyn. Livl., ii, p. 141, 1861.
Stål, Hemip. Afr., iv, p. 107, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 14, 1868.
Fieber, Cicad. d'Eur., i, p. 105, 1875; ii, pl. 10, 1876.
Mayr, Tabellen, p. 28, 1884.
Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
Melichar, Cicad. Mitt. Eur., p. 181, 1896.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 241, 1908.

1894. **Penthimia americana** Fitch

Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Gillette and Baker, Hemip. Colo., p. 83, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 100, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 29, 1916.
vicaria Walker, List Homop., iii, p. 841, 1851.
picta Provancher, Nat. Can., iv, p. 352, 1872.
Provancher, Pet. Faune Ent. Can., iii, p. 270, 1889.
Localities: Quebec, Ont., Mass., Me., N. Y., N. J., Pa., N. C., Ga., Fla., Mich., Ill., Tenn., Minn., Dak., Mont., Colo.

Genus **Zinneca** A. & S.
Haplotype *flavidorsum* A. & S.

Amyot and Serville, Hémip., p. 579, 1843.

1895. **Zinneca flavidorsum** A. & S.

Amyot and Serville, Hémip., p. 579, pl. 11, fig. 2, 1843.
Locality: Pa.

Genus **Gypona** Germ.
Haplotype *glauca* (Fabr.)

Germar, Mag. d. Ent., iv, p. 73, 1821.
Germar, Silbermann, Rev. Ent., i, p. 180, 1833.
Burmeister, Handb. d. Ent., ii, pp. 105, 114, 1835.
Burmeister, Genera Ins., i, pl. 16, 1838.
Blanchard, Hist. Nat. des Ins., Hémip., p. 195, 1840.
Amyot and Serville, Hémip., p. 579, 1843.
Stål, Rio Jan. Hemip., ii, p. 45, 1858.
Stål, Of. Vet. Akad. Forh., xix, p. 495, 1862.

Stål, Stet. Ent. Zeit., xxv, p. 81, 1864.
Stål, Hemip. Fabr., ii, p. 84, 1869.
Spångberg, Spec. Gyp.; Bih. Vet. Akad. Handl., v, No. 3, p. 5, 1878.
Berg, Hemip. Argent., p. 258, 1879.
Woodworth, Bul. Ill., St. Lab. Nat. Hist., iii, p. 29, 1887.
Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.

1896. **Gypona rugosa** Spångb.

Spångberg, Spec. Gyponae, p. 6, 1878.
Gillette and Baker, Hemip. Colo., p. 83, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.
Gypona sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
Localities: Ont., N. Y., N. J., Pa., Fla., Miss., Ohio, Ky., Tenn., Colo.(?), Utah(?). (Mexico.)

1897. **Gypona 8-lineata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1824; Compl. Writ., ii, p. 257, *Tetti-*
Harris *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Tettigonia.* [*gonia.*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 804, 1855, *Tettigonia.*
Walker, List Homop., Suppl., p. 349, 1858, *Tettigonia.*
Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 893, 1867.
Rathvon *in* Mombert, Hist. Lanc. Co., Pa., p. 551, 1869, *Tettigonia.*
Van Duzee, Psyche, v, p. 390, 1890.
Southwick, Science, xix, p. 318, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
?Gibson and Cogan, Ohio Jl. Sci., xvi, p. 73, 1915.
?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 31, 1916.
8-lineata var. Spångberg, Spec. Gyponae, p. 7, 1878.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Localities: Ont., N. Y., N. J., Pa., N. C., Tenn., Mo., Kans.

1898. **Gypona cana** Burm.

Burmeister, Genera Ins., i, pl. 16, No. 10, 1838.
Spångberg, Ent. Tidskr., ii, p. 23, 1881.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 214, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Gibson and Cogan, Ohio Jl. Sci., p. 74, 1915. [Writ., ii, p. 257, *Tettigonia.*
8-lineata var. *a,* Say, Jl. Acad. Nat. Sci. Phila., iv, p. 340, 1824; Compl.
flavilineata Spångberg, Spec. Gyponae, p. 8, 1878.
†*octolineata* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876; iii, p. 460,
Uhler, Stand. Nat. Hist., ii, p. 247, 1884. [1877; iv, p. 510, 1878.

Harrington, Ottawa Nat., vi, p. 32, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
Gillette and Baker, Hemip. Colo., p. 83, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, 1897 (part).
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 62, 1912 (part).
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 105, 1915 (part).
†*quebecensis* Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Fla., Ohio, Kans., Mo., Colo., Utah, Texas, Calif.

1899. **Gypona quebecensis** (Prov.)

Provancher, Nat. Can., iv, p. 352, 1872, *Tettigonia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906; xl, p. 157, 1908; xliv, p. 327, 1912.
cana Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 106, 1915.
Localities: Quebec, Ont., Me., N. Y., Pa.

1900. **Gypona pruinosa** Spångb.

Spångberg, Spec. Gyponae, p. 9, 1878.
Localities: Ga., Texas.

1901. **Gypona scrupulosa** Spångb.

Spångberg, Spec. Gyponae, p. 9, 1878.
Locality: S. C.

1902. **Gypona ramosa** Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 60, 1907.
Locality: Ariz.

1903. **Gypona olivacea** Spångb.

Spångberg, Ent. Tidskr., i, p. 24, 1881.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Localities: "Am. Bor.," N. J.

1904. **Gypona striata** Burm.

Burmeister, Genera Ins., i, pl. 16, No. 9, 1838.
Walker, List Homop., iii, p. 839, 1851.
Spångberg, Spec. Gyponae, p. 10, 1878.
Slosson, Ent. News, xiii, p. 8, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
flavilineata Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
Walker, List Homop., iv, p. 1159, 1852; Suppl., p. 256, 1858.
Fitch, Trans. N. Y. St. Agr. Soc., xxvii, p. 893, 1868.
Van Duzee, Can. Ent., xxi, p. 9, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Southwick, Science, xix, p. 318, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Gillette and Baker, Hemip. Colo., p. 83, 1895.

Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Van Duzee, Can. Ent., xxxviii, p. 409, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bull., 238, p. 105, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 31, 1916.
†*8-lineata* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 30, 1887.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, 1897 (part).
Localities: Ont., Me., Mass., N. Y., N. J., Pa., D. C., N. C., Fla., Tenn., Wisc., Ia., Kans., Mo., Colo., Texas, Calif.

1905. **Gypona verticalis** Stål

Stål, Stet. Ent. Zeit., xxv, p. 84, 1864.
Spångberg, Spec. Gyponae, p. 75, 1878.
Spångberg, Ent. Tidskr., ii, p. 28, 1881.
Fowler, Biol. Centr. Am., Homop., ii, p. 302, pl. 20, fig. 18, 1903.
mexicana Spångberg, Spec. Gyponae, p. 18, 1878.
Localities: Utah. (Mexico.)

1906. **Gypona melanota** Spångb.

Spångberg, Spec. Gyponae, p. 19, 1878.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 513, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
nigra Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 31, 1887.
Localities: N. Y., N. J., Ga., Ill., N. Mex.

1907. **Gypona bimaculata** Spångb.

Spångberg, Spec. Gyponae, p. 23, 1878.
Fowler, Biol. Centr. Am., Homop., ii, p. 297, pl. 20, fig. 4, 1903.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 62, 1912.
Localities: N. Y., N. J., Pa., Ohio, Ind., Ill., Minn., Ia., Colo., Utah.

1908. **Gypona unicolor** Stål

Stål, Stet. Ent. Zeit., xxv, p. 84, 1864.
Spångberg, Spec. Gyponae, p. 25, 1878.
Fowler, Biol. Centr. Am., Homop., ii, p. 297, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 61, 1907.
Localities: Colo., Calif. (West Indies, Mexico.)

1909. **Gypona dorsalis** Spångb.

Spångberg, Spec. Gyponae, p. 30, 1878.
Fowler, Biol. Centr. Am., Homop., ii, p. 301, 1903.
?Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Localities: Kans., N. Mex. (Mexico.)

1910. **Gypona bipunctulata** Woodw.

Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 30, 1887.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 181, 1897 (excel. synon.).
Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
Localities: N. Y., Ill., Kans., Ia.

1911. **Gypona angulata** Spångb.

Spångberg, Spec. Gyponae, p. 32, 1878.
Townsend, Can. Ent., xxiv, p. 196, 1892.
Gillette and Baker, Hemip. Colo., p. 83, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Colo., Utah, Texas, Calif.

1912. **Gypona tenella** Spångb.

Spångberg, Spec. Gyponae, p. 34, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 215, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: N. C., Ga., Fla.

1913. **Gypona geminata** Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
Locality: N. Y.

1914. **Gypona meditabunda** Spångb.

Spångberg, Spec. Gyponae, p. 39, 1878.
Locality: Texas.

1915. **Gypona citrina** Spångb.

Spångberg, Spec. Gyponae, p. 45, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: Fla., Texas.

1916. **Gypona woodworthi** Van D.

Van Duzee, Can. Ent., xlvi, p. 389, 1915 (n.n. for *bimaculata* Woodw.).
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
‖*bimaculata* Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 32, 1887.
[*colon* Fitch MS] Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
Localities: N. C., Ill., Ia.

1917. **Gypona pectoralis** Spångb.

Spångberg, Spec. Gyponae, p. 46, 1878.
Spångberg, Ent. Tidskr., i, p. 33, 1881.
Wirtner, Ann. Carn. Mus., iii, p. 220, 1904.
Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
albimarginata Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 31, 1887.
Harrington, Ottawa Nat., vi, p. 32, 1892.
hullensis Provancher, Pet. Faune Ent. Can., iii, p. 269, 1889.
Localities: Quebec, Ont., N. Y., Pa., Mich., Ill., Mo.

1918. **Gypona pauperata** Spångb.

Spångberg, Ent. Tidskr., i, p. 33, 1881.
Locality: "Am. Sept."

1919. **Gypona limbatipennis** Spångb.

Spångberg, Spec. Gyponae, p. 47, 1878.
Locality: Ill.

1920. **Gypona puncticollis** Spångb.
Spångberg, Spec. Gyponae, p. 54, 1878.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 30, 1916.
Localities: Tenn., Texas.

1921. **Gypona quadri-notata** Spångb.
Spångberg, Spec. Gyponae, p. 56, 1878.
Localities: Ga., Texas.

1922. **Gypona albosignata** Uhl.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 74.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: Ont., Mass., N. Y., Ga.

1923. **Gypona scarlatina** Fitch
Fitch, Homop. N. Y. St. Cab., p. 57, 1851.
Walker, List Homop., iv, p. 1159, 1852.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 513, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: N. H., Mass., N. Y., N. J., N. C., Ga., Mich.

1924. **Gypona irrorella** Spångb.
Spångberg, Spec. Gyponae, p. 60, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: Fla., Texas.

1925. **Gypona sanguinolenta** Spångb.
Spångberg, Spec. Gyponae, p. 63, 1878.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Localities: Ga., Fla., Texas.

1926. **Gypona modesta** Spångb.
Spångberg, Ent. Tidskr., iv, p. 107, 1883.
Locality: Ill.

1927. **Gypona grisea** Spångb.
Spångberg, Spec. Gyponae, p. 64, 1878.
Locality: Ga.

1928. **Gypona fraterna** Spångb.
Spångberg, Spec. Gyponae, p. 72, 1878.
Locality: Ga.

1929. **Gypona cinerea** Uhl.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 460, 1877.
Woodworth, Bul. Ill. St. Lab. Nat. Hist., iii, p. 32, 1887.
Localities: Mass., Conn., Ill., Kans., Colo., Utah.

[**Gypona columba** Fitch MS]
Uhler, Proc. Bost. Soc. Nat. Hist., xii, p. 327, 1869.
Locality: ?

Genus **Xerophloea** Germ.
Haplotype *grisea* Germ. = *viridis* Fabr.

Germar, Zeit. f. Ent., i, p. 190, 1839.
Burmeister, Genera Ins., i, pl. 8, 1840.
Walker, List. Homop., iii, p. 840, 1851.
Berg, Hemip. Argent., p. 257, 1879.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 28, 1916.
Mesodicus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 501, 1866.
Fieber, Cicad. d'Eur., i, p. 104, 1875.
Mayr, Tabellen, p. 28, 1884.
Parapholis Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 461, 1877.

1930. **Xerophloea viridis** (Fabr.)

Fabricius, Ent. Syst., iv, p. 50, 1794, *Cercopis.*
Fabricius, Syst. Rhyng., p. 94, 1803, *Cercopis.*
Stål, Hemip. Fabr., ii, p. 59, 1869.
Berg, Ann. Mus. Natl. Buenos Aires, iv, p. 202, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 179, pl. 19, fig. 1, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 60, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 532, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 28, 1916.
grisea Germar, Zeits. f. Ent., i, p. 190, 1839.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 73.
virescens Stål, Of. Vet. Akad. Forh., xi, p. 253, 1854.
peltata Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 461, 1877, *Parapholis.*
Uhler, Stand. Nat. Hist., ii, p. 248, 1884.
Gillette and Baker, Hemip. Colo., p. 82, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Localities: Mass., N. Y., N. J., Md., Ga., Fla., Miss., Tenn., Neb., Kans., Colo., Utah, Texas, Calif., Wash., Ore.

1931. **Xerophloea major** Bak.

Baker, Psyche, viii, p. 285, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 512, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 101, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 29, 1916.
Localities: N. Y., N. J., Va., Tenn.

Subfamily JASSINAE (A. & S.)

Amyot and Serville, Hémip., p. 581, 1843, *Jassides* (Groupe).
Spinola, Tavola Sinot., pp. 56, 58, 1850, *Jassoideae.*
Walker, List Homop., iii, p. 843, 1851, *Jassides* (part).
Stål, Of. Vet. Akad. Forh., xxvii, p. 735, 1870, *Jassida* (includes *Gyponini*).
Sahlberg, Cicad., p. 70, 1871, *Jassides* (includes *Bythoscopinae*).
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876, *Jassina.*
Uhler, Bul U. S. Geol. Geog. Surv., iii, p. 462, 1877.
Berg, Hemip. Argent., p. 263, 1879, *Jassina.*
Edwards, Ent. Mo. Mag., xx, p. 149, 1883. (Key to British genera).

Osborn, Ent. Am., i, p. 26, 1885, *Jassidae* (includes *Bythoscopinae*).
Ashmead, Ent. Am., iv, p. 67, 1888, *Jassida*.
Provancher, Pet. Faune Ent. Can., iii, p. 271, 1889, *Jassides*.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Jassidae*. (Key to Am. [genera.)
Matsumura, Termes. Fuzet., xxv, p. 355, 1902.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 296, 324, 1906.
Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 46, 1909.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 106, 1915. (Key.)

TRIBE *ACUCEPHALINI* (Dohrn)

Dohrn, Cat. Hemip., p. 84, 1859, *Acocephalidae*. (Family.)
Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868, *Acocephalidae*. (Subfamily.)
Sahlberg, Cicad., pp. 72, 352, 1871, *Acocephalides*.
Fieber, Kat. Cicad. Eur., p. 10, 1872, *Acocephalidae*. (Subfamily.)
Mayr, Tabellen, p. 27, 1884, *Acocephalidae*. (Subfamily.)
Puton, Cat. Hémip. Palae., edn. 3, p. 79, 1886.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Acocephalidae*. (Family.)
Van Duzee, Trans. Am. Ent. Soc., xix, pp. 297, 298, 1892, *Acocephalina*. (Sub- [family.)
Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 71, 1906, *Acocephalinae*. (Sub- [family.)
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 334, 1906, *Acocephalinae*. (Sub- [family.)
Distant, Fauna Brit. Ind., Rhyn., iv, pp. 158, 265, 1908, *Acocephalinae*. [(Subfamily.)
Van Duzee, Check List Hemip., p. 68, 1916.

Genus **Stroggylocephalus** Flor
Haplotype *agrestis* (Fall.)

Flor, Rhyn. Livl., ii, p. 210, 1861.
Van Duzee, Check List Hemip., p. 68, 1916.
‡*Strongylocephalus* Kirschbaum, Cicad. v. Wiesbad., p. 74, 1868.
Sahlberg, Cicad., pp. 72, 352, 1871.
Fieber, Cicad. d'Eur., i, p. 111, 1875; ii, pl. 11, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 89, 1879.
Mayr, Tabellen, p. 29, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 17.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
Melichar, Cicad. Mitt. Eur., p. 188, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 117, 1896.

1932. **Stroggylocephalus agrestis** (Fall.)

Fallén, Acta Holm, xxvii, p. 23, 1806, *Cicada*.
Fallén, Hemip. Suec., Cicad., p. 36, 1829, *Cicada*.
Burmeister, Genera Ins., i, pl. 12, 1838, *Selenocephalus*.
Flor, Rhyn. Livl., ii, p. 210, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 74, 1868.
?Sahlberg, Cicad., p. 353, 1871.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 90, pl. 2, fig. 18, 1879.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 18.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Melichar, Cicad. Mitt. Eur., p. 189, pl. 9, figs. 19–21, 1896.

Edwards, Hemip. Homop. Brit. Isds., p. 118, pl. 14, fig. 3, 1896.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 64, 1900.
Slosson, Ent. News, xiii, p. 321, 1902.
Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
Slosson, Ent. News, xvii, p. 326, 1906. [p. 258, *Tettigonia.*

mixta Say, Jl. Acad. Nat. Sci. Phila., iv, p. 341, 1825; Compl. Writ., ii,
Localities: N. H., Conn., N. Y., Mich., Ia., Colo. (Europe.)

Genus **Acucephalus** Germ.
Logotype *costatus* Germ. = *nervosus* Sch.

Germar, Silb. Rev. Ent., i, p. 181, 1833 (for *Cercopis striata* Fabr. and *Cicada* [*subrustica* Fall.).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *trifasciatus*
Van Duzee, Check List Hemip., p. 68, 1916. [Geof. (Fabr.) pseudotype).

Aphrodes Curtis, Ent. Mag., i, p. 195, 1833 (haplotype *testudo* Curt. = [*albifrons* Linn.).
Curtis, Brit. Ent., xiv, pl. 633, 1837 (names *maculipes* Curt. pseudotype).

‡*Acoccphalus* Burmeister, Handb. d. Ent., ii, pp. 105, 111, 1835.
Burmeister, Genera Ins., i, pl. 11, 1838 (names *costatus* Germ. type).
Amyot and Serville, Hémip., p. 582, 1843.
Kirschbaum, Cicad. v. Wiesbd., pp. 15, 73, 74, 1868.
Sahlberg, Cicad., pp. 72, 355, 1871.
Fieber, Cicad. d'Eur., i, p. 111, 1875; ii, pl. 11, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 61, 1879.
Berg, Hemip. Argent., p. 264, 1879.
Mayr, Tabellen, p. 30, 1884.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 19.
Provancher, Pet. Faune Ent. Can., iii, pp. 273, 282, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
Melichar, Cicad. Mitt. Eur., p. 190, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 119, 1896.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 64, 1900.

Pholetacra Zetterstedt, Ins. Lapp., column 288, 1840 (type *rustica* Fabr.).
Anoscopus Kirschbaum, Cicad. v. Wiesbd., p. 74, 1868 (type *histrionicus*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 81, 1879. [Fabr.).

1933. **Acucephalus nervosus** (Schrank)

Schrank, Enum. Ins. Aust., p. 252, 1781, *Cicada.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 62, pl. 1, fig. 6, 1879.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Edwards, Hemip. Homop. Brit. Isds., p. 62, pl. 14, fig. 4, 1896.
Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes.*
Van Duzee, Check List Hemip., p. 68, 1916.

striata Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis.*
Germar, Silb. Revue Ent., i, p. 181, 1833.
Walker, List Homop., iii, p. 848, 1851.
Sahlberg, Cicad., p. 356, 1871.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 288, 1894.
Melichar, Cicad. Mitt. Eur., p. 191, pl. 9, fig. 22, 1896.
Osborn, 20th Rept. N. Y. St. Ent., p. 514, 1905.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 107, 1915; Bul. 248, p. 73, 1916.
transversa Fabricius, Syst. Rhyng., p. 96, 1803, *Cercopis.*
striatella Fabricius, Syst. Rhyng., p. 98, 1803, *Cercopis.*
rustica Fabricius, Syst. Rhyng., p. 97, 1803, *Cercopis.*
Herrich-Schaeffer, Fauna Germ., cxxiv, p. 15.
Flor, Rhyn. Livl., ii, p. 199, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 75, 1868.
costata Panzer, Fauna Germ., lxi, p. 14, 1799, *Cicada.*
fasciatus Curtis, Brit. Ent., xiii, pl. 620, 1836.
sparsus Curtis, Brit. Ent., xiii, pl. 620, 1836.
cardui Curtis, Brit. Ent., xiii, pl. 620, 1836.
obscurus Curtis, Brit. Ent., xiii, pl. 620, 1836.
rugosus Curtis, Brit. Ent., xiii, pl. 620, 1836.
unicolor Curtis, Brit. Ent., xiii, pl. 620, 1836.
pallidus Curtis, Brit. Ent., xiii, pl. 620, 1836.
bicinctus Curtis, Brit. Ent., xiii, pl. 620, 1836.
pulverulenta Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes.*
adustus Hardy, Tyneside Field Club, i, p. 429, 1846.
meratii Guerin, ?
Localities: Ont., Me., N. Y. (Palaearctic.)

1934. **Acucephalus fusco-fasciatus** (Goeze)

Goeze, Ent. Beytr., ii, p. 161, no. 32, 1778, *Cicada.*
Bergroth, Bul. Soc. Ent. Fr. for 1890, p. lxvi.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes.*
Cicada no. 22, Geoffroy, Hist. Abreg. des Ins., i, p. 425, 1762.
brunneo bifasciatus Geoffroy, Hist. Abreg. des Ins., edn. 2, p. 425, no. 22, [1764, *Cicada* (not binominal).
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 82, 1879.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
transversalis Geoffroy in Fourcroy, Ent. Paris., p. 190, 1785, *Cicada.*
bistriata Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2116, 1788,
serratulae Fabricius, Ent. Syst., iv, p. 41, 1794, *Cicada.* [*Cicada.*
Fabricius, Syst. Rhyng., p. 54, 1803, *Flata.*
Herrich-Schaeffer, Fauna Germ., cxxx, p. 5, *Jassus.*
Kirschbaum, Cicad. v. Wiesbd., p. 78, 1868.
Sahlberg, Cicad., p. 362, 1871.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 2, fig. 15, 1879.
Melichar, Cicad. Mitt. Eur., p. 196, 1896.
Localities: N. J. (Europe.)

1935. **Acucephalus flavostrigatus** (Donov.)

Donovan, Brit. Ins., viii, p. 28, pl. 288, fig. 2, 1799, *Cicada.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 85, 1879.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.
Oshanin, Verz. Palae. Hemip., ii, p. 94, 1906.
rivularis Germar, Mag. d. Ent., iv, p. 89, 1821, *Jassus.*
Flor, Rhyn. Livl., ii, p. 205, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 77, 1868.
Sahlberg, Cicad., p. 363, 1871.
Melichar, Cicad. Mitt. Eur., p. 197, 1896.

Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes.*
§*flavo-lineatus* Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 2, fig. 17, 1879.
§*flavo-striatus* Edwards, Hemip. Homop. Brit. Isds., p. 124, pl. 14, fig. 11, [1896.
Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Localities: Vt., N. Y. (Europe.)

1936. **Acucephalus albifrons** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 437, 1758, *Cicada.*
Linnaeus, Fauna Suec., new edn., p. 241, sp. 884, 1761, *Cicada.*
Linnaeus, Syst. Nat., edn. 12, i, p. 709, 1767, *Cicada.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2103, 1788, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 25, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 203, 1861.
Sahlberg, Cicad., p. 360, 1871.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 76, pl. 2, fig. 14, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 122, pl. 14, figs. 6–8, 1896.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 65, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Slosson, Ent. News, xvii, p. 326, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Aphrodes.*
Van Duzee, Can. Ent., xliv, p. 328, 1912. [history).
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 108, 1915; Bul. 248, p. 69, 1916 (life
nitidula, Donovan, Brit. Ins., viii, p. 87, pl. 288, fig. 1, 1799, *Cicada.*
concinna Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes.*
testudo Curtis, Brit. Ent., xiv, pl. 633, 1837, *Aphrodes.*
nigropunctata Zetterstedt, Ins. Lapp., column 288, 1840, *Pholetaera.*
Sahlberg, Cicad., p. 360, 1871.
livens Zetterstedt, Ins. Lapp., column 288, 1840, *Pholetaera.*
interruptus Scott, Ent. Mo. Mag., ix, p. 264, 1873.
polystolus Scott, Ent. Mo. Mag., ix, p. 265, 1873.
circumflexus Provancher, Pet. Faune Ent. Can., iii, p. 282, 1889.
†*mixtus* Van Duzee, Psyche, v, p. 390, 1890.
Southwick, Science, xix, p. 318, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 197, 1894.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 288, 1894.

a. var. **fuliginosus** Sign.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 79, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

b. var. **arcuatus** Kirschb.
Kirschbaum, Cicad. v. Wiesbd., p. 75, 1868.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

c. var. **subrusticus** (Fall.)
Fallén, Acta Holm for 1806, p. 10, *Cicada.*
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

d. var. **apicalis** Sign.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

e. var. **albiger** (Germ.)
Germar, Mag. d. Ent., iv, p. 88, 1821, *Jassus.*
Germar, Fauna Eur., fasc. xvii, p. 17, 1834, *Jassus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

f. var. **confusus** (Kirschb.)
Kirschbaum, Cicad. v. Wiesbd., p. 78, 1868, *Anoscopus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 80, 1879.
Melichar, Cicad. Mitt. Eur., p. 195, 1896.

g. var. **argus** Rey
Rey, Revue d'Ent., x, p. 245, 1891.

[The varieties have not been worked out in this country.]

Localities: Ont., Me., N. H., N. Y., Pa., D. C., Mich., Wisc. (Europe.)

1937. **Acucephalus placidus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 280, 1889, *Selenocephalus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Locality: Quebec(?).

Genus **Memnonia** Ball
Orthotype *consobrina* Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 66, 1900.

1938. **Memnonia consobrina** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 66, pl. 5, figs. 6–10, 1900.
Localities: Neb., Colo.

1939. **Memnonia fraterna** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 67, 1900.
Localities: Neb., Colo.

Genus **Xestocephalus** Van D.
Logotype *pulicarius* Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 214, 1894 (described).
Matsumura, Termes. Fuzet., xxv, p. 402, 1902.
Melichar, Homop. Fauna Ceyl., p. 205, 1903.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 51, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, pp. 265, 348, 1908 (names *pulicarius* type).
Van Duzee, Can. Ent., xli, p. 384, 1909 (cites *pulicarius* as type).

1940. **Xestocephalus pulicarius** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 215, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 284, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907; ix, p. 216, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Melichar, Notes from Leyden Mus., xxxvi, p. 139, 1913.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 21, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C., Fla., Miss., Ohio, Tenn., Mo., Kans., Ia., Utah. (West Indies.)

1941. **Xestocephalus superbus** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 339, 1890, *Deltocephalus.*
Van Duzee, Can. Ent., xliv, p. 329, 1912.
fulvocapitatus Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 197, 215, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.
Localities: Quebec, Ont., Me., N. Y., Pa., Ohio, Tenn.

1942. **Xestocephalus tessellatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 216, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 35, 1916.
Localities: Pa., N. C., Fla., Miss., Tenn., Mo., Texas.

1943. **Xestocephalus coronatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 184, pl. 19, fig. 2, 1897.
Locality: Ia.

1944. **Xestocephalus nigrifrons** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 109, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 34, 1916.
Localities: Me., Tenn.

1945. **Xestocephalus brunneus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907.
Localities: Mass., R. I., N. Y., Pa.

Genus **Nionia** Ball
Orthotype *palmeri* (Van D.)

Ball, Proc. Biol. Soc. Wash., xxviii, p. 165, 1915.
†*Goniagnathus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 33, 1916.

1946. **Nionia palmeri** (Van D.)

Van Duzee, Can. Ent., xxiii, p. 171, 1891, *Goniagnathus.*
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904, *Goniagnathus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Goniagnathus.*
Osborn, Ohio Nat., v, p. 274, 1905, *Goniagnathus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Goniagnathus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Goniagnathus.*

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 33, 1916, *Goniagnathus*.
Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915 (as type of *Nionia*).
Localities: N. Y., N. J., Pa., N. C., Ohio, Tenn.

TRIBE *JASSINI* (Dohrn)

Dohrn, Cat. Hemip., p. 86, 1859, *Jassidae*.
Kirschbaum, Cicad. v. Wiesbd., p. 15, 1868, *Jassidae*.
Sahlberg, Cicad., p. 70, 1871, *Jassides*.
Mayr, Tabellen, p. 30, 1884, *Jassidae*.
Puton, Cat. Hémip. Palae., edn. 3, p. 81, 1886.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 45, *Jassidae*.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 297, 1892, *Jassina*.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 296, 324, 1906, *Jassinae*.

DIVISION *DORYDIARIA* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xix, p. 288, 1892, *Dorydini*. (Tribe.)
Van Duzee, Check List Hemip., p. 68, 1915.
Cephalelini Kirkaldy, Haw. S. P. A., Exp. St. Bul., iii, p. 72, 1907.
Hecalusaria Distant, Fauna Brit. Ind., Rhyn., iv, p. 273, 1908.
Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 46, 1909.

Genus **Dorycephalus** Kusch.
Haplotype *baeri* Kusch.

Kuschakewitch, Horae Soc. Ent. Ross., iv, p. 102, pl. 2, 1866.
Fieber, Cicad. d'Eur., i, p. 114, 1875; ii, pl. 11, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 50, 265, 1879.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 67, 1900.

1947. **Dorycephalus platyrhynchus** Osb.

Osborn, Can. Ent., xxvi, p. 216, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 185, pl. 20, fig. 1, 1897.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 65, fig. 7, 1912.
Dorycephalus sp., Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Localities: Ia., Neb., Kans., Colo.

1948. **Dorycephalus vanduzei** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 74, pl. 6, fig. 2, 1898.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 216, 1909.
Localities: Fla., Neb., Kans., Colo.

Genus **Neoslossonia** Van D.
Orthotype *atra* Van D. = *putnami* (Osb.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 218, 1909.
Van Duzee, Can. Ent., xl, p. 384, 1909 (cites *putnami* as type).

1949. **Neoslossonia putnami** (Osb.)

Osborn, Proc. Dav. Acad. Sci., x, p. 163, 1907, *Dorycephalus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
atra Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 218, 1909.
Localities: Ga., Fla.

Genus **Hecalus** Stål
Logotype *paykulli* Stål

Stål, Ann. Soc. Ent. Fr., ser. 4, iv, p. 65, 1864.
Stål, Hemip. Afr., iv, p. 113, 1866.
Berg, Hemip. Argent., p. 273, 1879.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 266, 1879.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 273, 1908.
Glossocratus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 502, 1866.
Fieber, Cicad. d'Eur., i, p. 116, 1875; ii, pl. 11, 1876.

1950. **Hecalus apicalis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 217, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Locality: Fla.

1951. **Hecalus bracteatus** Ball

Ball, Can. Ent., xxxiii, p. 4, 1901.
Locality: Colo.

1952. **Hecalus lineatus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 463, 1877, *Glossocratus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 267, pl. 7, fig. 25, 1879.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 188, pl. 20, fig. 2, 1897.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 64, fig. 6, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
fenestratus Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 464, 1877, *Glossocratus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 268, 1879; x, p. 42, pl. 1, [fig. 37, 1880.
Localities: Mass., N. Y., N. J., Mo., Kans., Ia., Neb., Minn., S. D., N. D., Colo.

Genus **Spangbergiella** Sign.
Haplotype *vulnerata* (Uhl.)

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 273, 1879.

1953. **Spangbergiella vulnerata** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 464, 1877, *Glossocratus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 274, 1879.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884, *Spangbergia.*
Baker, Can. Ent., xxix, p. 157, 1897.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 68, 1900 (excl. synon.).
Osborn, 20th Rept. N. Y. St. Ent., p. 516, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 62, 1907; ix, p. 219, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 36, 1916.

lacertae Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pl. 8, fig. 29, 1879.
Localities: N. Y., N. J., N. C., Fla., Tenn., Ark., Texas.

1954. **Spangbergiella mexicana** Bak.

Baker, Can. Ent., xxix, p. 157, 1897.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Locality: Fla.

Genus **Parabolocratus** Fieb.
Haplotype *glaucescens* Fieb. (*sulcatus* in Fieber key)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pp. 502, 513, 1866.
Fieber, Cicad. d'Eur, i, p. 117, 1875; ii, pl. 12, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 275, 1879; x, p. 41, 1880.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 70, 1900.

1955. **Parabolocratus viridis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 462, 1877, *Glossocratus.*
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 275, pl. 8, fig. 30, 1879.
Uhler, Stand. Nat. Hist., ii, p. 247, 1884.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 84, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 189, pl. 21, fig. 1, 1897.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 515, 1905.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 68, fig. 8, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 37, 1916. [*Gypona.*
[*reverta* Uhler MS] Hayden's Surv. Terr., Rept. for 1870, p. 472, 1872,
[*cyperacae* Fitch MS] Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, pp. 88, 275,
[1879, *Selenocephalus.*

a. var. **montanus** Ball
Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.
Localities: Quebec, Ont., N. H., Mass., Conn., N. Y., N. J., Pa., Tenn., Ill., Ia., Mo., Mont., Colo., Calif.

1956. **Parabolocratus major** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 110, 1915.
Locality: Me.

1957. **Parabolocratus flavidus** Sign.

Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 276, pl. 8, fig. 31, 1879.
Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 37, 1916.
Localities: N. C., Fla., Ala., Ia., Kans., Texas.

1958. **Parabolocratus brunneus** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 71, 1900.
Localities: Neb., Colo.

Genus **Dicyphonia** Ball
Orthotype *ramentosa* Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 69, 1900.

1959. **Dicyphonia ramentosa** Ball

Ball, Rept. Ia. Acad. Sci. for 1899, p. 69, pl. 5, figs. 1–5, 1900 (misprinted [*pamentosa*).
Localities: Neb., Colo.

1960. **Dicyphonia ornata** (Bak.)

Baker, Can. Ent., xxxii, p. 49, 1900, *Platymetopius.*
Locality: Kans.

Genus **Cochlorhinus** Uhl.
Haplotype *pluto* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892.
Ball, Can. Ent., xxxiv, p. 53, 1902.

1961. **Cochlorhinus pluto** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 358, 1876.
Ball, Can. Ent., xxxiv, p. 54, pl. 2, fig. 1, 1902.
Locality: Calif.

Genus **Uhleriella** Ball
Orthotype *coquilletti* (Van. D.)

Ball, Can. Ent., xxxiv, p. 54, 1902.

1962. **Uhleriella coquilletti** (Van D.)

Van Duzee, Ent. Am., vi, p. 95, 1890, *Deltocephalus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettix.*
Ball, Can. Ent., xxxiv, p. 55, pl. 2, fig. 2, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Locality: Calif.

1962½. **Uhleriella ziczac** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915.
Locality: Calif.

1963. **Uhleriella stygica** Ball

Ball, Can. Ent., xxxiv, p. 55, pl. 2, fig. 3, 1902.
Locality: Calif.

1963½. **Uhleriella pasadena** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 166, 1915.
Locality: Calif.

1964. **Uhleriella signata** Ball

Ball, Can. Ent., xxxiv, p. 56, pl. 2, fig. 4, 1902.
Locality: Calif.

Genus **Drionia** Ball
Orthotype *nigra* Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 167, 1915.

1964½. **Drionia nigra** Ball

Ball, Proc. Biol. Soc. Wash., xxviiii, p. 167, 1915.
Locality: Ore.

Genus **Huleria** Ball
Orthotype *4-punctata* Ball

Ball, Can. Ent., xxxiv, p. 57, 1902.

1965. **Huleria 4-punctata** Ball

Ball, Can. Ent., xxxiv, p. 58, pl. 2, fig. 5, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Locality: Calif.

DIVISION *DELTOCEPHALARIA* (Fieb.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 201, 1869, *Deltocephali.*
Van Duzee, Trans. Am. Ent. Soc., xix, pp. 298, 299, 1892, *Deltocephalini.*
Distant, Fauna Brit. Ind., Rhyn., iv, p. 371, 1908, *Deltocephalusaria.*

Genus **Aligia** Ball
Orthotype *jucunda* (Uhl.)

Ball, Proc. Dav. Acad. Sci., xii, pp. 31, 53, 75, 1907 (as subgenus of *Eutettix*).
Van Duzee, Check List Hemip., p. 69, 1916. [1894.
†*Allygus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892; xxi, p. 294,

1966. **Aligia inscripta** (Van D.)

Van Duzee, Ent. Am., vi, p. 92, 1890, *Allygus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 54, pl. 3, fig. 1, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
Locality: Calif.

1967. **Aligia oculea** (Ball)

Ball, Can. Ent., xxxiii, p. 50, 1901, *Eutettix.*
Ball, Proc. Dav. Acad. Sci., xii, p. 53, 1907.
Locality: Colo.

1968. **Aligia jucunda** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 469, 1877, *Jassus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 97, note, 1898, *Paramesus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 55, pl. 3, fig. 2, 1907.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Md.(?), Colo., N. Mex., Texas, Ariz., Utah, Calif.

1969. **Aligia munda** (Ball)

Ball, Can. Ent., xxxiii, p. 48, 1901, *Eutettix.*
Ball, Proc. Dav. Acad. Sci., xii, p. 57, pl. 3, fig. 3, 1907.
Localities: Colo., N. Mex., Ariz.

1970. **Aligia modesta** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 98, 1898, *Eutettix.*
Ball, Proc. Dav. Acad. Sci., xii, p. 58, pl. 3, fig. 4, 1907.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
Localities: Pa., D. C., N. C., Ia.

1971. **Aligia manitou** (Ball)

Ball, Can. Ent., xxxiii, p. 49, 1901, *Eutettix.*
Ball, Proc. Dav. Acad. Sci., xii, p. 58, pl. 3, fig. 5, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907, *Eutettix.*
Localities: Colo., N. Mex.

Genus **Mesamia** Ball
Orthotype *nigridorsum* Ball

Ball, Proc. Dav. Acad. Sci., xii, pp. 31, 59, 75, 1907 (as subgenus). [1894.
†*Paramesus* Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892; xxi, p. 290,

1972. **Mesamia nigridorsum** Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 60, pl. 3, fig. 6; pl. 4, fig. 6, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 68, 1916, *Eutettix.*
†*twiningi* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 290, 1894, *Paramesus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907.
†*jucundus* Gillette and Baker, Hemip. Colo., p. 84, 1895, *Paramesus.*
Localities: N. J., Pa., N. C., Tenn., Ia., Dak., Kans., Colo., Utah.

1973. **Mesamia straminea** (Osb.)

Osborn, Proc. Ia. Acad. Sci., v, p. 241, 1898, *Paramesus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 62, pl. 3, fig. 7; pl. 4, fig. 7, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Localities: Ia., Dak., Neb., Kans., Colo., Utah, Calif.

1974. **Mesamia coloradensis** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 91, 1895, *Allygus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 63, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 66, 1907, *Paramesus.*
immaculatus Ball, Can. Ent., xxxvii, p. 211, 1905, *Paramesus.*

a. var. **visalia** Ball
Ball, Can. Ent., xlviii, p. 128, 1916.
Localities: La.(?), Colo., Utah, Calif. (Mexico.)

1975. **Mesamia vitellina** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 57, 1851, *Acocephalus.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Acocephalus.*
Van Duzee, Psyche, v, p. 390, 1890, *Selenocephalus.*
Southwick, Science, xix, p. 318, 1892, *Paramesus.*
Van Duzee *in* Lintner's 9th Rept. N. Y. St. Ent., p. 410, 1893, *Paramesus.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 290, 1894, *Paramesus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894, *Paramesus.*
Gillette and Baker, Hemip. Colo., p. 84, 1895, *Paramesus.*
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904, *Paramesus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 516, 1905, *Paramesus.*

Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905, *Paramesus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 67, pl. 4, fig. 2, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915, *Eutettix.*
twiningi Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878, *Jassus.*
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904, *Paramesus.*
furcatus Osborn, Can. Ent., xxxii, p. 285, 1900, *Paramesus.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., Mich., Manitoba, N. D., S. D., Ia., Neb., Colo., Utah, Wash., Br. Col., Vanc. Isd.

1976. **Mesamia palliolata** (Ball)

Ball, Can. Ent., xxxiv, p. 13, 1902, *Eutettix.*
Ball, Proc. Dav. Acad. Sci., xii, p. 69, pl. 3, fig. 9, 1907.
Locality: Texas.

1977. **Mesamia illumina** Ball

Ball, Can. Ent., xli, p. 80, 1909.
Locality: Ariz.

1978. **Mesamia(?) irrorellus** (Stål)

Stål, Freg. Eugen. Resa, Ins., p. 295, 1859, *Athysanus.*
Ball, Proc. Dav. Acad. Sci., xii, p. 70, 1907.
Locality: Calif.

Genus **Scaphoideus** Uhl.
Logotype *immistus* (Say)

Uhler, Trans. Md. Acad. Sci., i, p. 33, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 276, 1889.
Van Duzee, Ent. Am., vi, p. 52, 1890.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 187, 1900 (monograph).
Matsumura, Termes. Fuzet., xxv, p. 383, 1902.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 371, 1908.
Osborn, Ohio Nat., xi, p. 249, 1911.

1979. **Scaphoideus fasciatus** Osb.

Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 190, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.
Osborn, Ohio Nat., xi, p. 252, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Localities: N. J., Fla. (West Indies.)

1980. **Scaphoideus sanctus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 307, 1831; Compl. Writ., ii, p. 383,
Walker, List Homop., iv, p. 1164, 1852, *Jassus.* [*Jassus.*
Osborn, Ohio Nat., xi, p. 251, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 55, 1916.
picturatus Osborn, Proc. Ia. Acad. Sci., v, p. 243, 1898.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 193, 1900.
Localities: N. J., N. C., Ohio, Ky., Tenn., Ind., Ia., Ill., Mo.

1981. **Scaphoideus neglectus** Osb.

Osborn, Ohio Nat., xi, p. 252, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
†*sanctus* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 300, 1894.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 191, 1900.
†*fasciatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.
Localities: Fla., Miss., Texas. (Mexico.)

1982. **Scaphoideus cruciatus** Osb.

Osborn, Ohio Nat., xi, p. 253, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
†*sanctus*(*?*) Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.
Localities: N. Y., N. J., Fla.

1983. **Scaphoideus auronitens** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 277, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 194, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.
Osborn, Ohio Nat., xi, p. 254, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.
[*areatus* Harris MS] *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus*.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 308, 1894.
Van Duzee, Can. Ent., xli, p. 383, 1909.
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C., Fla., Ohio, Tenn., Ill.

1984. **Scaphoideus jucundus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 34, 1889.
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 195, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.
Osborn, Ohio Nat., xi, p. 254, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.
Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Tenn., Ia., Mo.

1985. **Scaphoideus unicolor** Osb.

Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 196, 1900 (as var. of *consors*).
Osborn, Ohio Nat., xi, p. 255, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 57, 1916.
Localities: Mass., N. Y., D. C., W. Va., Ga., Fla., Ala., Texas

1986. **Scaphoideus albonotatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.
Osborn, Ohio Nat., xi, p. 255, 1910.
§*albonotus* Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Locality: Fla.

1987. **Scaphoideus consors** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 36, 1889.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 196, 1900.
Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Localities: N. Y., Pa., Md., D. C., N. C., Fla., Ohio, Colo., Utah, Texas.

1988. **Scaphoideus scalaris** Van D.

Van Duzee, Ent. Am., vi, p. 51, 1890.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 198, 1900.
Slosson, Ent. News, xiii, p. 321, 1902.
Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Osborn, Ohio Nat., ix, p. 464, 1909; xi, p. 255, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 56, 1916.
Localities: Me., N. H., N. Y., Pa., Fla., Ohio, Tenn., Ia., Kans., Mo., Ariz., Calif., Wash. (Mexico, Centr. Am.)

1989. **Scaphoideus lobatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 199, 211, 1894.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 199, 1900.
Slosson, Ent. News, xiii, p. 321, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.
Osborn, Ohio Nat., xi, p. 256, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Localities: Me., N. H., N. Y., N. J., Pa., N. C., Ohio, Ia.

1990. **Scaphoideus ochraceus** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 242, 1898.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 199, 1900.

Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
Osborn, Ohio Nat., xi, p. 258, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 57, 1916.
Localities: N. H., N. Y., Pa., Tenn., Ia.

1991. **Scaphoideus productus** Osb.

Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 200, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, Ohio Nat., xi, p. 258, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Localities: Me., Mass., N. Y., Pa., N. C., Ky., Ia., Kans., Mo.

1992. **Scaphoideus carinatus** Osb.

Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 201, 1900.
Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
Osborn, Ohio Nat., xi, p. 258, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 115, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
Localities: Me., N. H., N. Y., N. J., N. C., Ohio.

1993. **Scaphoideus nigricans** Osb.

Osborn, Ohio Nat., xi, p. 258, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.
Localities: N. C., Tenn.

1994. **Scaphoideus intricatus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 34, 1889.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 202, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
Osborn, Ohio Nat., xi, p. 258, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.
Localities: N. H., N. Y., N. J., Pa., Md., Va., Ohio, Ky., Tenn., Mich., Ia., Neb., Kans.

1995. **Scaphoideus luteolus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 210, 1894.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 203, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 524, 1905.
Osborn, Ohio Nat., xi, p. 259, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.
Localities: Me., N. Y., N. J., Pa., Ohio, Tenn., Ill., Ia.

1996. **Scaphoideus immistus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 306, 1831; Compl. Writ., ii, p. 382, *Jassus.*
Van Duzee, Can. Ent., xxi, p. 11, 1889, *Jassus.*
Uhler, Trans. Md. Acad. Sci., i, p. 33, 1889.

Provancher, Pet. Faune Ent. Can., iii, p. 276, 1890.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Gillette and Baker, Hemip. Colo., p. 94, 1895.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 204, 1900.
Slosson, Ent. News, xiii, p. 321, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xl, p. 158, 1908.
Osborn, Ohio Nat., xi, p. 259, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 58, 1916.

a. var. **minor** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 205, 1900.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.

b. var. **major** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 205, 1900.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.

c. var. **incisus** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 206, 1900.
Localities: Quebec, Ont., Me., N. H., Vt., Mass., N. Y., N. J., Pa., D. C., W. Va., N. C., Fla., Ala., Ohio, Tenn., Mich., Ill., Ia., Mo., Kans., Colo., Texas, Calif.

1997. **Scaphoideus melanotus** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 206, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, Ohio Nat., xi, p. 259, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 59, 1916.
Localities: Pa., Md., Tenn., Texas.

1998. **Scaphoideus obtusus** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 207, 1900.
?Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
Osborn, Ohio Nat., xi, p. 260, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Localities: N. Y., Fla., Ill., Ia.

1999. **Scaphoideus cinerosus** Osb.
Osborn, Jl. Cinc. Soc. Nat. Hist., xix, p. 208, 1900.
Osborn, Ohio Nat., xi, p. 259, 1910.
Localities: Ill., Ia.

2000. **Scaphoideus opalinus** Osb.
Osborn, 20th Rept. N. Y. St. Ent., p. 525, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 226, 1909.

Osborn, Ohio Nat., xi, p. 260, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: N. Y., N. J., Fla.

2001. **Scaphoideus fumidus** Ball

Ball, Can. Ent., xxxiii, p. 8, 1901.
Osborn, Ohio Nat., xi, p. 254, 1910.
Localities: Colo., Ariz.

2002. **Scaphoideus bicolor** Ball

Ball, Ent. News, xx, p. 166, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Locality: Calif.

2003. **Scaphoideus blandus** Ball

Ball, Can. Ent., xxxiii, p. 7, 1901.
Osborn, Ohio Nat., xi, p. 256, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: Colo., Calif.

2004. **Scaphoideus pellucidus** Ball

Ball, Can. Ent., xli, p. 83, 1909.
Locality: Calif.

2005. **Scaphoideus catalinus** Ball

Ball, Can. Ent., xli, p. 82, 1909.
Locality: Ariz.

2006. **Scaphoideus scrupulosus** Ball

Ball, Can. Ent., xxxiv, p. 14, 1902.
Osborn, Ohio Nat., xi, p. 256, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

a. var. **reductus** Ball
Ball, Can. Ent., xli, p. 84, 1909.
Locality: Calif.

2007. **Scaphoideus irroratus** Osb.

Osborn, Ohio Nat., xi, p. 257, 1910.
Locality: Calif.

Genus **Platymetopius** Burm.
Logotype *undatus* (DeG.)

Burmeister, Genera Ins., i, pl. 14, subgenus 4, 1838.
Flor, Rhyn. Livl., ii, p. 221, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 82, 146, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 201, 1869.
Sahlberg, Cicad., pp. 72, 295, 1871.
Fieber, Cicad. d'Eur., i, p. 124, 1875; ii, pl. 13, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, ix, p. 52, 1879.
Berg, Hemip. Argent., p. 272, 1879.

Mayr, Tabellen, p. 35, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 17, 26.
Provancher, Pet. Faune Ent. Can., iii, p. 274, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Melichar, Cicad. Mitt. Eur., p. 207, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 127, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 191, 1897.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 214, 1910 (monograph Am. species).
Proceps Mulsant and Rey, Ann. Soc. Linn. Lyons for 1855, p. 237.

2008. **Platymetopius hyalinus** Osb.

Osborn, Ent. News, xi, p. 501, 1900.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 218, 1910.
Localities: Pa., D. C.

2009. **Platymetopius modestus** Stål

Stål, Of. Vet. Akad. Forh., xi, p. 255, 1854.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.
Locality: "Carolina."

2010. **Platymetopius pyrops** (Crmb.)

Crumb, Ann. Ent. Soc. Am., viii, p. 191, 1915, *Deltocephalus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 53, 1916, *Deltocephalus.*
Locality: Tenn.

2011. **Platymetopius nigriviridis** Ball

Ball, Ent. News, xx, p. 163, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 218, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.

a. var. **dixianus** Ball

Ball, Ent. News, xx, p. 163, 1910.
Localities: Utah, Calif.

2012. **Platymetopius majestus** Ball

Ball, Ent. News, xx, p. 164, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Locality: Calif.

2013. **Platymetopius elegans** Van D.

Van Duzee, Ent. Am., vi, p. 94, 1890.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Locality: Calif.

2014. **Platymetopius acutus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 306, 1831; Compl. Writ., ii, p. 382, [*Jassus.*
Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus.*
Walker, List Homop., iii, p. 894, 1851; iv, p. 1163, 1852, *Jassus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 473, 1877.
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 275, 1889.

Van Duzee, Psyche, v, p. 389, 1890.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Townsend, Can. Ent., xxiv, p. 197, 1892.
Davis, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 3, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 84, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 192, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xl, p. 157, 1908.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 219, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 69, fig. 9, 1912.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 111, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.

a. var. **dubius** Van D.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 220, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.
†*latus* Van Duzee, Can. Ent., xl, p. 157, 1908.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., N. J., Pa., N. C., Ohio, Tenn., Mo., Kans., Colo., Utah, Calif., Br. Col.

2015. **Platymetopius oregonensis** Bak.

Baker, Can. Ent., xxxii, p. 49, 1900.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 220, 1910.
Localities: Colo., N. Mex., Utah, Calif., Ore.

2016. **Platymetopius latus** Bak.

Baker, Can. Ent., xxxii, p. 50, 1900.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 221, 1910.
Localities: Quebec, Ont.

2017. **Platymetopius cuprescens** Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 517, 1905.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 221, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 112, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.
Localities: Quebec, Ont., Me., N. Y., N. C., Tenn., Colo., Utah.

2017½. **Platymetopius trilineatus** Ball

Ball, Ent. News, xxvii, p. 204, 1916.
Locality: Calif.

2018. **Platymetopius slossoni** Van D.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 222, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Localities: Fla., Calif.

2019. **Platymetopius cinereus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 193, pl. 26, fig. 1, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 223, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 72, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.
Localities: N. C., Fla., Tenn., Ia., Neb., Kans., Ariz.

2020. **Platymetopius angustatus** Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 518, 1905.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 223, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 114, 1915.
Localities: N. Y., Mo.

2020½. **Platymetopius parvus** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 122, 1917.
Locality: S. C.

2021. **Platymetopius fulvus** Osb.

Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 224, 1910.
Localities: N. Y., Pa., Ohio.

2022. **Platymetopius dorsalis** Ball

Ball, Ent. News, xx, p. 164, 1909 (as var. of *frontalis*).
Van Duzee, Ann. Ent. Soc. Am., iii, p. 224, 1910.
Locality: Kans.

2023. **Platymetopius frontalis** Van D.

Van Duzee, Can. Ent., xxii, p. 112, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 193, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 221, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 517, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 225, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 71, fig. 10, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 113, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 40, 1916.
Localities: Ont., Me., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Miss., Ohio, Tenn., Ill., Mo., Kans., Ia., Calif.

2024. **Platymetopius nasutus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 64, 1907.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 225, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 53, 1914.
Localities: Colo., Calif. (West Indies.)

2025. **Platymetopius loricatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 205, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 64, 1907; ix, p. 219, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 226, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Fla., Colo., Calif. (Mexico, Centr. Am.)

2026. **Platymetopius irroratus** Van D.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 227, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Ariz., Calif. (Mexico.)

2027. **Platymetopius verecundus** Van D.

Van Duzee, Ann. Ent. Soc. Am., iii, p. 227, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
†*obscurus* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
Localities: N. C., Fla.

2027¼. **Platymetopius carolinus** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 123, 1917.
Locality: S. C.

2027½. **Platymetopius abbreviatus** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 39, 1916.
Locality: Tenn.

2028. **Platymetopius scriptus** Ball

Ball, Ent. News, xx, p. 165, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 228, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 42, 1916.
Localities: Tenn., Kans.

2029. **Platymetopius magdalensis** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 275, 1889.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 113, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 41, 1916.
obscurus Osborn, Ohio Nat., v, p. 274, 1905.
Osborn, 20th Rept. N. Y. St. Ent., p. 518, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 219, 1909.
Van Duzee, Can. Ent., xl, p. 157, 1909.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 229, 1910.
Localities: Quebec, Ont., Me., Mass., N. Y., Pa., Ga., Fla., Ohio, Tenn.

2030. **Platymetopius brevis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 66, 1907.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.

a. var. **torridus** Ball

Ball, Ent. News, xxvii, p. 205, 1916.
Localities: Calif. (West Indies.)

2030¼. **Platymetopius compactus** Ball

Ball, Ent. News, xxvii, p. 176, 1916.
Locality: Calif.

2030½. **Platymetopius nigricollis** Ball

Ball, Ent. News, xxvii, p. 205, 1916.
Localities: Utah, Calif.

2031. **Platymetopius fuscifrons** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 206, 1894.
Van Duzee, Ann. Ent. Soc. Am., iii, p. 230, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
?DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 41, 1916.
abruptus Ball, Ent. News, xx, p. 165, 1909.
Localities: Tenn.(?), Ariz., Calif.

2031½. **Platymetopius bicolor** DeL.

DeLong, Tenn. St. Bd. Ent., Bul., 17, p. 38, 1916.
Locality: Tenn.

Genus **Deltocephalus** Burm.
Logotype *pulicarius* (Fall.)

Burmeister, Genera Ins., 1, pl. 14, subgen. 3, 1838.
Flor, Rhyn. Livl., ii, pp. 221, 223, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 82, 123, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 203, 1869.
Sahlberg, Cicad., pp. 72, 298, 1871.
Fieber, Cicad. d'Eur., i, p. 124, 1875; ii, pl. 13, 1876.
Berg, Hemip. Argent., p. 268, 1879.
Mayr, Tabellen, p. 35, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 42.
Provancher, Pet. Faune Ent. Can., iii, pp. 273, 277, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Melichar, Cicad. Mitt. Eur., p. 214, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 144, 1896.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 195, 1897.
Matsumura, Termes. Fuzet., xxv, p. 390, 1902.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 56, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 380, 1908.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 42, 1916.

2032. **Deltocephalus productus** (Walk.)

Walker, List Homop., iii, p. 891, 1851, *Jassus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 77, 1898.

Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 116, 1915.
Localities: Nov. Scot., Me., Mo.

2033. **Deltocephalus bilineatus** G. & B.

Gillette and Baker, Hemip. Colo., p. 85, 1895.
Baker, Psyche, viii, p. 115, 1897.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 200, 1897.
Localities: N. H., Ia., Colo.

2033½. **Deltocephalus luteocephalus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 84, 1917.
Locality: Wis.

2034. **Deltocephalus imputans** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 75, 1898.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 43, 1916.
Localities: Tenn., Ia., Kans.

2035. **Deltocephalus areolatus** Ball

Ball, Can. Ent., xxxi, p. 188, 1899.
Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
Localities: N. Y., N. J., D. C., Md., N. C., Kans., Ariz.

2036. **Deltocephalus albidus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 201, pl. 23, fig. 1, 1897.
Baker, Psyche, viii, p. 115, 1897.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Localities: Ia., Mo.

[2037, see No. 2042]

2038. **Deltocephalus slossoni** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 119, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Locality: Fla.

2039. **Deltocephalus inflatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 202, pl. 22, fig. 2, 1897.
Baker, Psyche, viii, p. 115, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Localities: D. C., Fla., Ia., Kans., Colo.

2040. **Deltocephalus flexulosus** Ball

Ball, Can. Ent., xxxi, p. 189, 1899.
Localities: Kans., Colo.

2041. **Deltocephalus sandersi** Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 164, 1907.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 46, 1916.
Localities: Md., Va., Ga., Tenn.

2042. **Deltocephalus pictus** Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 165, 1907.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.
funabulus Crumb, Ann. Ent. Soc. Am., viii, p. 189, 1915.
Van Duzee, Check List Hemip., p. 70, No. 2037, 1916.
Localities: N. Y., Tenn.

2043. **Deltocephalus visendus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 189, 1915.
Locality: Fla.

2044. **Deltocephalus reflexus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 203, pl. 22, fig. 1, 1897.
Baker, Psyche, viii, p. 115, 1897.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.
Localities: N. C., Tenn., Ia., Kans., Colo.

2045. **Deltocephalus pectinatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 205, pl. 22, fig. 2, 1897.
Locality: Ia.

2046. **Deltocephalus fraternus** Ball

Ball, Can. Ent., xliii, p. 201, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Deltocephalus sp. Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
Locality: Fla.

2047. **Deltocephalus mendosus** Ball

Ball, Can. Ent., xliii, p. 202, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Locality: Fla.

2048. **Deltocephalus abbreviatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 206, pl. 22, fig. 4, 1897.
Locality: Ia.

2049. **Deltocephalus stylatus** Ball

Ball, Can. Ent., xxxi, p. 190, 1899.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 45, 1916.
Localities: Tenn., Ia.

2050. **Deltocephalus grammicus** Ball

Ball, Can. Ent., xxxii, p. 204, 1900.
Localities: Neb., Colo.

2051. **Deltocephalus configuratus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1879.
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Slosson, Ent. News, v, p. 5, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 87, 1895.

Osborn and Ball, Ia. Agr. College, Exp. Sta. Bul. 34, p. 630, 1897.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 209, pl. 23, fig. 3, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 80, fig. 16, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.

Localities: Ont., Me., N. H., N. Y., Ohio, Ill., Ia., N. D., S. D., Wyo, Colo., Mont.

2052. **Deltocephalus ocellaris** (Fall.)

Fallén, Hemip. Suec., Cicad., p. 33, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 237, 1861, *Jassus.*
Kirschbaum, Cicad. v. Wiesbd., p. 141, 1868, *Jassus.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 205, pl. 5, fig. 9, 1869.
Sahlberg, Cicad., p. 310, 1871.
Melichar, Cicad. Mitt. Eur., p. 223, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 151, pl. 17, fig. 3, 1896.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 207, 1897.

Localities: Colo. (Europe.)

2053. **Deltocephalus sayi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus.*
Walker, List Homop., iv, p. 1158, 1852, *Jassus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878.
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 280, 1889.
Van Duzee, Psyche, v, p. 390, 1890.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Southwick, Science, xix, p. 288, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 88, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 207, pl. 23, fig. 2, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.
Van Duzee, Can. Ent., xl, p. 158, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 84, fig. 20, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 117, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 46, 1916.

Localities: Quebec, Ont., N. H., Me., Mass., N. Y., N. J., Pa., N. C., Miss., Ohio, Ky., Tenn., Ia., Kans., Mo., Colo., Dak.

2054. **Deltocephalus misellus** Ball

Ball, Can. Ent., xxxi, p. 191, 1899.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 117, 1915.

Localities: Me., Mo., Colo., Utah.

2055. **Deltocephalus weedi** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 306, 1892.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 216, pl. 25, fig. 2, 1897.
Baker, Psyche, viii, p. 116, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn., St. Bd. Ent., Bul. 17, p. 52, 1916.
Localities: Pa., N. C., Fla., Miss., Ohio, Tenn., Mo., Kans., Ia.

2055½. **Deltocephalus interruptus** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916.
Locality: Tenn.

2056. **Deltocephalus micarius** Ball

Ball, Can. Ent., xliii, p. 203, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Locality: Fla.

2057. **Deltocephalus obtectus** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 78, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 53, 1916.
Localities: Me., Mass., N. Y., N. J., N. C., Fla., Ohio, Tenn., Mo., Ia.

2058. **Deltocephalus infumatus** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
Locality: Me.

2059. **Deltocephalus compactus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 217, pl. 25, fig. 3, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 535, 1905.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 52, 1916.
Localities: N. Y., D. C., N. C., Tenn., Ia., Wash.

2059½. **Deltocephalus nigriventer** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 85, 1917.
Locality: Wis.

2060. **Deltocephalus vinnulus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 192, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 54, 1916.
Locality: Tenn.

2061. **Deltocephalus callidus** Ball

Ball, Can. Ent., xxxi, p. 306, 1899.
Locality: Wash.

2062. **Deltocephalus apicatus** Osb.

Osborn, Can. Ent., xxxii, p. 285, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 120, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 50, 1916.
Localities: Me., Vt., Mass., N. Y., N. J., Pa., Md., D. C., Ohio, Tenn.

2062½. **Deltocephalus fumidus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 86, 1917.
Locality: Wis.

2063. **Deltocephalus inimicus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 305, 1831; Compl. Writ., ii, p. 382,
Fitch, Homop., N. Y. St. Cab., p. 61, 1851, *Amblycephalus.* [*Jassus.*
Walker, List, Homop., iii, p. 895, 1851; iv, p. 1163, 1852, *Jassus.*
Walker, List Homop., iv, p. 1158, 1852, *Tettigonia.*
Forbes, 14th Rept. Ill. St. Ent., pp. 22, 67, 1884, *Jassus.*
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 278, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Osborn, Iowa Agr. Exp. Sta., Bul. 13, p. 99, 1891.
Osborn, Iowa St. Agr. Soc., Rept. for 1892, p. 687.
Osborn, Insect Life, v, p. 113, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Southwick, Science, xix, p. 288, 1892.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 45, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Osborn and Ball., Proc. Ia. Acad. Sci., iv, p. 215, pl. 24, fig. 3, 1897.
Baker, Psyche, viii, p. 116, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 523, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xl, p. 158, 1908.
Howard, Insect Book, p. 245, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 72, fig. 11, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 123, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916.
6-punctatus Provancher, Nat. Can., iv, p. 378, 1872, *Jassus.*
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Del., Md., Va., N. C., Ohio, Tenn., Mich., Ind., Ill., Ia., Kans., Mo., N. D., S. D., Minn., Colo., Mont., Idaho, Wash.

2064. **Deltocephalus arundineus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 191, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.
Locality: Tenn.

2065. **Deltocephalus flavicosta** Stål

Stål, Rio. Jan. Hemip., ii, p. 53, 1862.
Baker, Psyche, viii, p. 117, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 67, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
[*harrisi* Fitch MS], in collections.
flavocostatus Van Duzee, Can. Ent., xxiv, p. 116, 1892.
Weed, Can. Ent., xxiv, p. 279, 1892.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 217, 1897.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.
retrorsus Uhler, Proc. Zool. Soc. Lond. for 1895, p. 78.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
[§*retroversus* Uhl. MS] Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900.
Localities: Conn., N. Y., N. J., Pa., D. C., Md., N. C., Ga., Fla., Miss., Tenn., Ia., Mo., Kans. (Neotropical.)

2066. **Deltocephalus signatifrons** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 305, 1892.
Gillette and Baker, Hemip. Colo., p. 89, 1895.
Osborn and Ball, Ia. Agr. College Exp. Sta., Bul. 34, p. 635, 1897.
Osborn, Proc. Ia. Acad. Sci., iv, p. 215, pl. 25, fig. 1, 1897.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.
Localities: Md., Tenn., Ia., Colo.

2067. **Deltocephalus vinculatus** Ball

Ball, Can. Ent., xxxi, p. 191, 1891.
Locality: Colo.

2068. **Deltocephalus cruciatus** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 77, 1898.
Locality: Ia.

2069. **Deltocephalus sexmaculatus** G. & B.

Gillette and Baker, Hemip. Colo., p. 88, 1895.
Baker, Psyche, viii, p. 116, 1897.
Locality: Colo.

2070. **Deltocephalus blandus** Gill.

Gillette, Colo. St. Agr. College Exp. Sta., Bul. 43, p. 26, 1898.
Locality: Colo.

2071. **Deltocephalus debilis** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 360, 1876.
Van Duzee, Can. Ent., xxi, p. 11, 1889.
Van Duzee, Psyche, v, p. 241, 1889.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 87, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 210, pl. 23, fig. 2, 1897.
Baker, Psyche, viii, p. 117, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 121, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.
†*melsheimeri* Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Localities: Ont., Me., N. H., N. Y., Pa., Tenn., Mo., Ia., Colo.

2072. **Deltocephalus abdominalis** (Fabr.)

Fabricius, Syst. Rhyng., p. 98, 1803, *Cercopis* (n.n. for *bicolor* Fabr.).
Fallén, Hemip. Suec., Cicad., p. 31, 1826, *Cicada.*
Zetterstedt, Fauna Lapp., p. 521, 1828, *Cicada.*
Germar, Fauna Eur., fasc. xvii, p. 19, 1834, *Jassus.*
Flor, Rhyn. Livl., ii, p. 249, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 129, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 215, pl. 6, fig. 40, 1869.
Sahlberg, Cicad., p. 328, 1871.
Van Duzee, Psyche, v, p. 241, 1889.
Melichar, Cicad. Mitt. Eur., p. 240, 1896.
Baker, Psyche, viii, p. 117, 1897.
Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.
Van Duzee, Can. Ent., xl, p. 158, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 121, 1915.
‖*bicolor* Fabricius, Ent. Syst., iv, p. 40, 1794, *Cicada.*
balteata Zetterstedt, Ins. Lapp., column 290, 1840, *Cicada.*
juvenca Hardy, Proc. Tyneside Field Club, i, p. 425, 1846(?), *Aphrodes.*
Localities: Quebec, Ont., Me., N. H., Alaska. (Europe.)

2073. **Deltocephalus pascuellus** (Fall.)

Fallén, Hemip. Suec., Cicad., p. 32, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 251, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 216, 1869.
Sahlberg, Cicad., p. 325, 1871.
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908.
punctipes Zetterstedt, Ins. Lapp., column 292, 1840, *Cicada.*
fuscosignatus Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 195.
†*minki* Provancher, Pet. Faune Ent. Can., iii, p. 279, 1889.
Van Duzee, Ent. Am., vi, p. 96, 1890.
Baker, Psyche, viii, p. 117, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 520, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.

Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 118, 1915.
Localities: Quebec, Ont., Me., N. H., N. Y. (Europe.)

2074. **Deltocephalus parvulus** Gill.

Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 23, 1898.
Locality: Colo.

2075. **Deltocephalus melsheimerii** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus.*
Walker, List Homop., iii, p. 895, 1851, *Jassus;* iv, p. 1152, 1852, *Tettigonia.*
Baker, Psyche, viii, p. 118, 1897.
?Slosson, Ent. News, ix, p. 251, 1898.
?Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 521, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
?Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xl, p. 158, 1908; xli, p. 383, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 119, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 48, 1916.
minimus Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 211, pl. 24, fig. 4, 1897.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 24, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 47, 1916.
Localities: Quebec, Ont., Me., N. H., N. Y., Pa., D. C., N. C., Tenn., Ia., Kans., Colo.

2076. **Deltocephalus monticolor** G. & B.

Gillette and Baker, Hemip. Colo., p. 88, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897.
Locality: Colo.

2077. **Deltocephalus collinus** Boh.

Boheman, Kong. Vet. Akad. Handl. for 1850, p. 261.
Flor, Rhyn. Livl., ii, p. 257, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 135, 1868.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 216, pl. 6, fig. 42, 1869.
Sahlberg, Cicad., p. 331, 1871.
Melichar, Cicad. Mitt. Eur., p. 242, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 264, pl. 29, figs. 4, 5, 1896.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 80, 1898.
aridellus Boheman, Kong. Vet. Akad. Handl. for 1850, p. 263.
Localities: Ia., Colo. (Europe.)

2078. **Deltocephalus ordinatus** Ball

Ball, Can. Ent., xxxi, p. 307, 1899.
Locality: Colo.

2078½. **Deltocephalus concinnus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 86, 1917.
Locality: Wis.

2079. **Deltocephalus affinis** G. & B.

Gillette and Baker, Hemip. Colo., p. 84, 1895.
Baker, Psyche, viii, p. 118, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 522, 1905.
Van Duzee, Can. Ent., xl, p. 158, 1908; xli, p. 383, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 82, fig. 18, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
†*melsheimerii* Van Duzee, Psyche, v, p. 390, 1890.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 198, 1894.
Gillette and Baker, Hemip. Colo., p. 88, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 211, pl. 24, fig. 1, 1897.
Gillette, Psyche, ix, p. 171, 1901.
†*debilis* Osborn, Ia. Agr. College Exp. Sta., Bul. 13, p. 100, 1891.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 30, p. 45, 1893.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Ia., Kans., Colo., Calif., Br. Col.

2080. **Deltocephalus unicoloratus** G. & B.

Gillette and Baker, Hemip. Colo., p. 89, 1895.
Baker, Psyche, viii, p. 118, 1897.
§*unicolorous* Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897.
Locality: Colo.

2081. **Deltocephalus oculatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 212, pl. 23, fig. 4, 1897.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 48, 1916.
Localities: Tenn., Ia., Colo.

2082. **Deltocephalus littoralis** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 120, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Localities: N. Y., N. J., Fla.

2083. **Deltocephalus sylvestris** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 213, pl. 25, fig. 4, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 519, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 554, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 119, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 49, 1916.
Localities: Ont., Me., N. Y., Pa., Md., D. C., N. C., Ohio, Tenn., Ia., Kans., Colo.

2084. **Deltocephalus vicilinus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 193, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 54, 1916.
Locality: Tenn.

2085. **Deltocephalus lividellus** (Zett.)

Zetterstedt, Ins. Lapp., column 290, 1840, *Cicada.*
Sahlberg, Cicad., p. 324, 1871.
Horvath, Ann. Mus. Natl. Hung,, vi, pp. 6, 7, 1908.
frigidus Boheman, Kong. Vet. Akad. Handl. for 1845, p. 25.
Flor, Rhyn. Livl., ii, p. 244, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xix, p. 213, pl. 5, fig. 33, 1869.
Locality: Greenland.

2086. **Deltocephalus cinerosus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 305, 1892.
§*cinereus* Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 214, 1897.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Locality: Calif.

2087. **Deltocephalus bimaculatus** G. & B.

Gillette and Baker, Hemip. Colo., p. 86, 1895.
Baker, Psyche, viii, p. 117, 1897.
Locality: Colo.

2088. **Deltocephalus flavo-virens** G. & B.

Gillette and Baker, Hemip. Colo., p. 87, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettix.*
Baker, Psyche, viii, p. 117, 1897.
Van Duzee, Can. Ent., xl, p. 159, 1908, *Thamnotettix.*
Localities: Quebec, Colo., Calif., Br. Col., Vanc. Isd.

2089. **Deltocephalus simplex** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 304, 1892.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Thamnotettix.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910. [*simplex* Van D.).
simplarius Osborn and Ball, Ohio Nat., ii, p. 249, 1902, *Athysanus,* (n.n. for
Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus.*
Localities: Mass., N. Y., N. J., Md.

2090. **Deltocephalus osborni** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 304, 1892.
Van Duzee, Bul. Buf Soc. Nat. Sci., v, p. 198, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 249, pl. 17, fig. 4, 1902, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus.*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 58, 1907.
Localities: N. Y., Ind., Neb., Ia., Colo.

2090½. **Deltocephalus escalantus** (Ball)

Ball, Ent. News, xxvii, p. 175, 1916, *Athysanus.*
Locality: Utah.

2091. **Deltocephalus auratus** G. & B.

Gillette and Baker, Hemip. Colo., p. 85, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 214, 1897.
Locality: Colo.

2092. **Deltocephalus paludosus** Ball

Ball, Can. Ent., xxxi, p. 307, 1899.
Locality: Colo.

2093. **Deltocephalus obesus** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 81, 1898.
Localities: Texas, Ariz. (Mexico.)

2094. **Deltocephalus satur** Ball

Ball, Can. Ent., xxxi, p. 309, 1899.
Locality: Colo.

2095. **Deltocephalus castoreus** Ball

Ball, Can. Ent., xxxi, p. 308, 1899.
Locality: Colo.

2096. **Deltocephalus caperatus** Ball

Ball, Can. Ent., xxxii, p. 343, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.
Localities: Fla.(?) Ia., Neb., Colo.

2097. **Deltocephalus balli** Van D.

Van Duzee, Check List Hemip., p. 71, 1916 (n.n. for *nigrifrons* Van D.).
†*nigrifrons* Van Duzee, Trans. Am. Ent. Soc., xxi, p. 293, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 218, 1897.
Baker, Psyche, viii, p. 116, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 68, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 74, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 122, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 50, 1916.
Localities: Me., N. Y., N. J., Pa., N. C., Tenn., Mo., Ia., Kans.

2098. **Deltocephalus fuscinervosus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 207, 1894.
Baker, Psyche, viii, p. 116, 1897.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 80, fig. 15, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Colo., Calif.

2099. **Deltocephalus punctatus** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 94, 1898, *Athysanus*.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
Localities: Ia., Colo., Calif.

2100. **Deltocephalus vanduzei** G. & B.

Gillette and Baker, Hemip. Colo., p. 90, 1895.
Baker, Psyche, viii, p. 116, 1897.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
artemesiae Gillette and Baker, Hemip. Colo., p. 91, 1895, *Athysanus*.
Osborn and Ball, Ohio Nat., ii, p. 256, 1902 (genus?).
Localities: Colo., Calif.

2101. **Deltocephalus sonorus** Ball

Ball, Can. Ent., xxxii, p. 344, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 220, 1909.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 79, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
Localities: Fla., Texas, Ariz.

2102. **Deltocephalus gnarus** Ball

Ball, Can. Ent., xxxii, p. 345, 1900.
Locality: Ia.

2103. **Deltocephalus evansi** Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.
Locality: Alaska.

2104. **Deltocephalus harrimani** Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 132, 1904.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 83, 1912 (= *affinis?*).
Locality: Alaska.

2105. **Deltocephalus concentricus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 208, 1894.
Gillette and Baker, Hemip. Colo., p. 87, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1907, *Thamnotettix*.
Baker, Psyche, viii, p. 115, 1897. [*tettix*.
flavomarginatus Gillette and Baker, Hemip. Colo., p. 96, 1895, *Thamno-*
Baker, Psyche, viii, p. 115, 1897.
Localities: Colo., Calif.

2106. **Deltocephalus cookei** Gill.

Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 24, 1898.
Locality: Colo.

Genus **Lonatura** O. & B.
Logotype *catalina* O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, 1898.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 62, 1907.

2107. **Lonatura catalina** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, pl. 4, fig. 2, 1898.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.
Localities: Tenn., Ia., S. D.

2108. **Lonatura minuta** (Van D.)

Van Duzee, Ent. Am., vi, p. 96, 1890, *Deltocephalus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Doratura.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 83, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Locality: Calif.

2109. **Lonatura megalopa** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 85, pl. 4, fig. 1, 1898.
Locality: Ia.

2110. **Lonatura salsura** Ball

Ball, Can. Ent., xxxi, p. 310, 1899.
Locality: Colo.

2111. **Lonatura bicolor** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 221, 1909.
Locality: Fla.

2112. **Lonatura noctivaga** Ball

Ball, Can. Ent., xxxii, p. 342, 1900.
Localities: Neb., Colo.

2113. **Lonatura nebulosa** Ball

Ball, Can. Ent., xxxii, p. 341, 1900.
Locality: Colo.

DIVISION *EUSCELIDARIA* Van D.

Van Duzee, Check List Hemip., p. 71, 1916 (n.n. for *Athysanini* Van D.).
Athysanini Van Duzee, Trans. Am. Ent. Soc., xix, p. 288, 1892. (Tribe.)
Distant, Fauna Brit. Ind., Rhyn., iv, pp. 343, 351, 1908.
Distant, Trans. Linn. Soc. Lond., Zool., xiii, p. 47, 1909. [1907. (Tribe.)
Phyrnomorphusaria Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 24, 39,
Thamnotettixaria Distant, Fauna Brit. Ind., Rhyn., iv, p. 343, 1908.

Genus **Aconura** Leth.
Logotype *jakolevi* Leth.

Lethierry, Compt. Rend. Soc. Ent. Belg., xix, p. lxxxv, 1876.
Melichar, Cicad. Mitt. Eur., p. 302, 1896.
Matsumura, Termes. Fuzet., xxv, p. 385, 1902.
Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 378, 1908.
Athysanella Baker, Psyche, viii, p. 185, 1898 (type *magdalena* Bak.).

2114. **Aconura attenuata** (Bak.)

Baker, Psyche, viii, p. 188, 1898, *Athysanella.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
Locality: Colo.

2115. **Aconura magdalena** (Bak.)

Baker, Psyche, viii, p. 185, 1898, *Athysanella.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
Localities: Colo., N. Mex.

2116. **Aconura occidentalis** (Bak.)
Baker, Psyche, viii, p. 186, 1898, *Athysanella.*
Locality: Colo.

2117. **Aconura acuticauda** (Bak.)
Baker, Psyche, viii, p. 187, 1898, *Athysanella.*
Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Athysanella.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanella.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915, *Athysanella.*
Localities: Ont., Me., N. H., N. Y., Ill., Colo.

2118. **Aconura robusta** (Bak.)
Baker, Psyche, viii, p. 187, 1898, *Athysanella.*
Locality: Colo.

2119. **Aconura incongrua** (Bak.)
Baker, Psyche, viii, p. 188, 1898, *Athysanella.*
Locality: Colo.

2120. **Aconura minuta** (Bak.)
Baker, Psyche, viii, p. 189, 1898, *Athysanella.*
Locality: Colo.

2121. **Aconura argenteolus** (Uhl.)
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 473, 1877, *Deltocephalus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 220, 1897, *Deltocephalus;* p. 232, [1897, *Doratura.*
Baker, Psyche, viii, p. 119, 1897, *Deltocephalus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 567, 1908.
Locality: Colo.

2122. **Aconura labiata** (Gill.)
Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 26, 1898, *Deltocephalus.*

a. var. **rufa** (Gill.)
Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 28, 1898, *Deltocephalus.*
Locality: Colo.

2123. **Aconura atropuncta** (Gill.)
Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 28, 1898, *Deltocephalus.*
Locality: Colo.

Genus **Nephotettix** Mats.
Logotype *apicalis* Motsch.

Matsumura, Termes. Fuzet., xxv, p. 378, 1902.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 359, 1908.

2124. **Nephotettix terebrans** (G. & B.)
Gillette and Baker, Hemip. Colo., p. 102, 1895, *Eutettix.*
Baker, Psyche, viii, p. 119, 1897, *Athysanus;* p. 185, 1898, *Athysanella.*
Matsumura, Termes. Fuzet., xxv, p. 379, 1902.
Locality: Colo.

2125. **Nephotettix curtipennis** (G. & B.)
Gillette and Baker, Hemip. Colo., p. 92, 1898, *Athysanus.*
Baker, Psyche, viii, p. 119, 1897, *Athysanus;* p. 185, 1898, *Athysanella.*
Locality: Colo.

Genus **Driotura** O. & B.
Logotype *gammaroides* Van D.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 87, 1898.
Osborn and Ball, Ohio Nat., ii, p. 256, 1902 (names *gammaroides* type).
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 58, 1907.
Horvath, Ann. Mus. Natl. Hung., ix, p. 596, 1911.
Oshanin, Kat. Palae. Hemip., p. 104, 1912 (names *robusta* pseudotype).

2126. **Driotura gammaroides** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 209, 1894, *Athysanus*.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 314, 1894, *Athysanus*.
Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus*.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 89, pl. 4, fig. 3, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905.
Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908, *Anoterostemma*.
Horvath, Ann. Mus. Natl. Hung., ix, p. 596, 1911.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916.

a. var. **flava** O. & B.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 90, 1898.

b. var. **fulva** Ball
Ball, Can. Ent., xxxv, p. 231, 1903.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916 (spelled *fulvo*).
Localities: Mass., N. Y., D. C., N. C., Tenn., Ia., Kans., Colo., Wyo., Utah.

2127. **Driotura robusta** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 87, pl. 4, fig. 4, 1898.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 64, 1916.

a. var. **vittata** Ball
Ball, Can. Ent., xxxv, p. 231, 1903.
Localities: N. C., Tenn., Ia., Colo.

2128. **Driotura ornata** (Gill.)

Gillette, Colo. Agr. Exp. Sta., Bul. 43, p. 29, 1898, *Athysanus*.
Osborn and Ball, Ohio. Nat., ii, p. 256, 1902.
Locality: Colo.

Genus **Euscelis** Brul.
Haplotype *lineolatus* Brul.

Brullé, Exped. Sci. Morée, iii, p. 109(?), 1832.
Horvath, Ann. Mus. Natl. Hung., vi, p. 9, 1908.
Van Duzee, Can. Ent., xlvi, p. 389, 1914.
Van Duzee, Check List Hemip., p. 71, 1916. [=*lineolatus* Brul.).
Phrynomorphus Curtis, Ent. Mag., i, p. 194, 1833 (haplotype *nitidus* Curt.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 116, 1840 (names *nitidus* type).
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 325, 1906; iii, p. 59, 1907.
Athysanus Burmeister, Genera Ins., i, pl. 14, 1838.

Amyot and Serville, Hémip., p. 587, 1843.
Kirschbaum, Die Athysanus Arten, p. 3, 1858.
Flor, Rhyn. Livl., ii, p. 267, 1861.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 81, 102, 1868.
Sahlberg, Cicad., pp. 71, 260, 1871. [meister made *argentatus* type).
Scott, Ent. Mo. Mag., xii, p. 93, 1875 (states erroneously that Bur-
Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.
Berg, Hemip. Argent., p. 265, 1879.
Mayr, Tabellen, p. 33, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 35.
Provancher, Pet. Faune Ent. Can., iii, p. 281, 1889.
Van Duzee, Psyche, vi, p. 307, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Van Duzee, Can. Ent., xxv, p. 285, 1893.
Melichar, Cicad. Mitt. Eur., p. 257, 1896.
Matsumura, Termes. Fuzet., xxv, p. 372, 1902.
Osborn and Ball, Ohio Nat., ii, p. 231, 1902 (names *argentatus* type).
Distant, Fauna Brit. Ind., Rhyn., iv, p. 343, 1908 (cites *argentatus* as
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 60, 1916. [type).
Opsius Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.

Subgenus **Athysanus** Burm.
Logotype *argentatus* Fabr.

Osborn and Ball, Ohio Nat., ii, p. 232, 1902.
Van Duzee, Can. Ent., xlvi, p. 389, 1915.
Limotettix Sahlberg, Cicad., p. 224, 1871.
Van Duzee, Psyche, vi, p. 306, 1892 (type *striola* Fall.?).
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892; xxi, p. 303, 1894.

2129. **Euscelis magnus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 225, pl. 26, fig. 2, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 273, 1902, *Athysanus.*
Localities: La., Texas, Ia., Neb., Kans., Colo., Wyo., S. D., Minn.

2130. **Euscelis frigidus** Ball

Ball, Ent. News, x, p. 172, 1899, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 233, 1902, *Athysanus.*
Locality: Colo.

2131. **Euscelis exitiosus** (Uhl.)

Uhler, Am. Ent., iii, p. 72, 1880, *Cicadula.*
Uhler, U. S. Dept. Agr., Rept. for 1879, p. 191, 1880, *Cicadula.*
Uhler, Stand. Nat. Hist., ii, p. 245, 1884, *Cicadula.*
Van Duzee, Psyche, v, p. 306, 1892, *Limotettix.*
Osborn, Iowa St. Agr. Soc., Rept. for 1892, p. 688, *Cicadula.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Cicadula.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 304, 1894, *Limotettix.*
Gillette and Baker, Hemip. Colo., p. 100, 1895, *Eutettix.*
Osborn and Ball, Ohio Nat., ii, p. 234, pl. 16, fig. 2, 1902, *Limottetix.*
Wirtner, Ann. Carn. Mus., iii, p. 222, 1904, *Athysanus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 68, 1907, *Athysanus.*

Van Duzee, Can. Ent., xli, p. 128, 1909, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 86, fig. 21, 1912, *Athysanus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phrynomorphus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914, *Athysanus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 60, 1916, *Athysanus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.

Localities: N. Y., N. J., Pa., Md., D. C., N. C., S. C., Ga., Fla., Miss., Ohio, Tenn., Ind., Ia., Mo., Kans., Colo., Okla., Texas, Ariz., Calif. (West Indies, Bermudas.)

2132. **Euscelis striolus** (Fall.)

Fallén, Acta Holm, xxvii, p. 31, 1806, *Cicada.*
Flor, Rhyn. Livl., ii, p. 315, 1861, *Jassus.*
Kirschbaum, Cicad. v. Wiesbd., p. 87, 1868, *Jassus.*
Sahlberg, Cicad., p. 226, 1871, *Limotettix.*
Fieber, Kat. Eur. Cicad., p. 12, 1872, *Athysanus.*
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 71, *Limotettix.*
Van Duzee, Can. Ent., xxi, p. 11, 1889; xxiii, p. 171, 1891, *Athysanus.*
Van Duzee, Psyche, vi, p. 306, 1892, *Limotettix.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894, *Limotettix.*
Melichar, Cicad. Mitt. Eur., p. 264, 1896, *Athysanus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 4, 1898, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 235, 1902, *Athysanus.*
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 132, 1915, *Athysanus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
frenatus Germar, Mag. d. Ent., iv, p. 86, 1821, *Jassus.*

Localities: Quebec, Ont., Me., N. Y., N. J., Pa., Ohio, Ill., Ia., Colo., Calif., Vanc. Isd.

2133. **Euscelis paralellus** (Van D.)

Van Duzee, Can. Ent., xxiii, p. 169, 1891, *Athysanus.*
Van Duzee, Psyche, vi, p. 306, 1892, *Limotettix.*
Osborn and Ball, Ohio Nat., ii, p. 235, 1902, *Athysanus.*
Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*

Localities: Quebec, Ont., N. J., Ia., Colo.

Subgenus **Euscelis** Brullé

Van Duzee, Can. Ent., xlvi, p. 389, 1915.
Athysanus Sec. 1, Van Duzee, Psyche, vi, p. 307, 1892.
Athysanus Sec. A, Van Duzee, Can. Ent., xxv, p. 285, 1893.
Conosanus Osborn and Ball, Ohio Nat., ii, p. 236, 1902.

2134. **Euscelis extrusus** (Van D.)

Van Duzee, Can. Ent., xxv, p. 283, 1893, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus.*

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 92, pl. 6, fig. 1, 1898, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 237, 1902, *Athysanus.*
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 527, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 127, 1915, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 61, 1916, *Athysanus.*
venosus Osborn, 20th Rept. N. Y. St. Ent., p. 526, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*
Localities: Ont., Me., N. H., Conn., N. Y., N. J., Pa., Tenn., Mich., Ia., Kans., Colo.

2135. **Euscelis alpinus** (Ball)

Ball, Ent. News, x, p. 173, 1899, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 238, 1902, *Athysanus.*
Localities: N. H., Colo.

2136. **Euscelis relativus** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus.*
Horvath, Ann. Mus. Natl. Hung., vi, p. 6, 1908, *Athysanus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912, *Athysanus.*
†*obsoletus* Provancher, Pet. Faune Ent. Can., iii, p. 281, 1889, *Athysanus.*
Van Duzee, Psyche, vi, p. 307, 1892, *Athysanus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Athysanus.*
Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus.*
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 295, 1894, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 239, 1902, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 526, 1905, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 127, 1915, *Athysanus.*
Localities: Ont., Me., R. I., N. Y., Ill., Ia., Colo., Vanc. Isd.

2136½. **Euscelis shastus** (Ball)

Ball, Ent News, xxvii, p. 174, 1916, *Athysanus.*
Locality: Calif.

2136¾. **Euscelis deceptus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 87, 1917.
Localities: Me., Ill., Wis.

2137. **Euscelis varus** (Ball)

Ball, Can. Ent., xxxiii, p. 5, 1901, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 239, 1902, *Athysanus.*
Locality: Colo.

2138. **Euscelis uhleri** (Ball)

Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912, *Athysanus.*
†*plutonius* Provancher, Pet. Faune Ent. Can., iii, p. 282, 1889, *Athysanus.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Athysanus.*
Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus.*

Osborn and Ball, Ohio Nat., ii, p. 240, pl. 16, fig. 3, 1902, *Athysanus.*
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 126, 1915, *Athysanus.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Ia., S. D., Neb., Kans., Mo.

2139. **Euscelis anthracinus** (Van D.)

Van Duzee, Can. Ent., xxvi, p. 136, 1894, *Athysanus.*
Gillette and Baker, Hemip. Colo., p. 91, 1895, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 241, 1902, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 126, 1915, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 61, 1916, *Athysanus.*
[*Schleroracus anthracinus* Uhler MS *in litt.*] [*Conogonus.*
[*gagates* Ashmead, MS] Osborn, Proc. Ia. Acad., Sci., i, pt. 2, p. 126, 1892,
Localities: Me., Mass., N. Y., N. J., D. C., Tenn., Ia., Kans., Colo.

2140. **Euscelis viriosus** (Ball)

Ball, Can. Ent., xlii, p. 266, 1910, *Thamnotettix.*
Van Duzee, Check List Hemip., p. 72, 1916.
Locality: Calif.

2141. **Euscelis symphoricarpae** (Ball)

Ball, Can. Ent., xxxiii, p. 5, 1901, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 241, pl. 16, fig. 4, 1902, *Athysanus.*
Localities: Mass., Colo

2141½. **Euscelis clavatus** (Ball)

Ball, Ent. News, xxvii, p. 173, 1916, *Athysanus.*
Locality: Utah.

2142. **Euscelis arctostaphyli** (Ball)

Ball, Ent. News, x, p. 172, 1899, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 243, pl. 16, fig. 5, 1902, *Athysanus.*
Slosson, Ent. News, xiii, p. 321, 1902, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 129, 1915, *Athysanus.*
Localities: Quebec, Me., N. H., N. Y., Colo.

2143. **Euscelis humidus** (Osb.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 131, 1915, *Athysanus.*
Locality: Me.

2144. **Euscelis striatulus** (Fall.)

Fallén, Hemip. Suec., Cicad., p. 45, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 361, 1861, *Jassus.*
Sahlberg, Cicad., p. 253, 1871, *Limotettix.*
Melichar, Cicad. Mitt. Eur., p. 264, 1896, *Athysanus.*

Edwards, Hemip. Homop. Brit. Isds., p. 172, pl. 19, fig. 9, 1896, *Thamnotettix.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 3, 1898, *Athysanus.*
plutonius Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 470, 1877, *Jassus.*
Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus.*
†*vaccinii* Osborn and Ball, Ohio Nat., ii, p. 242, 1902, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*
Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 130, 1915, *Athysanus.*
Localities: Ont., Me., Mass., R. I., N. Y., N. J., Md., Ia., Kans., Colo. (Europe.)

2145. **Euscelis vaccinii (Van D.)**

Van Duzee, Ent. Am., vi, p. 135, 1890, *Athysanus* (*striatulus* or *vaccinii*).
Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus.*
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Localities: Quebec, Ont., Me., Mass., R. I., N. Y., N. J., Pa.
[Probably not distinct from preceding.]

2146. **Euscelis instabilis** (Van D.)

Van Duzee, Can. Ent., xxv, p. 284, 1893, *Athysanus.*
Van Duzee, Mich. Agr. Exp. Sta., Bul. 102, p. 8, 1894, *Athysanus.*
Van Duzee, Exp. Sta. Record, v, p. 791, 1894, *Athysanus* (reprint of preceding).
Gillette and Baker, Hemip. Colo., p. 93, 1895, *Athysanus.*
Van Duzee, Can. Ent., xl, p. 158, 1908, *Athysanus.*
†*striatulus* Osborn and Ball, Ohio Nat., ii, p. 242, 1902, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 528, 1905, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 128, 1915, *Athysanus.*
Localities: Quebec, Ont., Mich., Colo., Br. Col.

2147. **Euscelis angustatus** (Osb.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 130, 1915, *Athysanus.*
Localities: Me., N. Y.

2148. **Euscelis elongatus** (Osb.)

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 129, 1915, *Athysanus.*
†*striatulus* Van Duzee, Can. Ent., xxxviii, p. 410, 1906, *Athysanus.*
Athysanus sp., Van. Duzee, Can. Ent., xl, p. 158, 1908.
Localities: Quebec., Ont., Me., Ore.(?).

2149. **Euscelis dentatus** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 95, 1898, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 244, pl. 17, fig. 5, 1902, *Athysanus.*
Locality: Colo.

2150. **Euscelis acuminatus** (Bak.)

Baker, Psyche, vii, Suppl., i, p. 25, 1896, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 256, 1902, *Athysanus.*
Locality: N. Mex.

Subgenus **Conomellus** O. & B.
Orthotype *comma* (Van D.)

Osborn and Ball, Ohio Nat., ii, p. 245, 1902.
Van Duzee, Can. Ent., xlvi, p. 389, 1915.

2151. **Euscelis comma** (Van D.)

Van Duzee, Can. Ent., xxiv, p. 114, 1892, *Athysanus.*
Gillette and Baker, Hemip. Colo., p. 92, 1895, *Athysanus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 223, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 246, pl. 17, fig. 1, 1902, *Athysanus.*
Slosson, Ent. News, xiii, p. 321, 1902, *Athysanus.*
Localities: N. H., Ia., Neb., Kans., Colo.

2152. **Euscelis colon** (O. & B.)

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 223, pl. 26, fig. 3, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 247, pl. 17, fig. 2, 1902, *Athysanus.*
Localities: Ia., Minn.

2153. **Euscelis sexvittatus** (Van D.)

Van Duzee, Can. Ent., xxvi, p. 93, 1894, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 247, pl. 17, fig. 3, 1902, *Athysanus.*
Locality: Colo.

2153½. **Euscelis lassus** (Ball)

Ball, Ent. News, xxvii, p. 175, 1916, *Athysanus.*
Locality: Calif.

2154. **Euscelis texanus** (O. & B.)

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 92, 1898, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 248, 1898, *Athysanus.*
Localities: La., Texas.

2155. **Euscelis estacadus** (Ball)

Ball, Can. Ent., xliii, p. 200, 1911, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus.*
Localities: Tenn., Texas.

Subgenus **Stirellus** O. & B.
Orthotype *bicolor* (Van D.)

Osborn and Ball, Ohio Nat., ii, p. 250, 1902.
Van Duzee, Can. Ent., xlvi, p. 389, 1915.
Athysanus Sec. 2, Van Duzee, Psyche, vi, p. 307, 1892.
Athysanus Sec. B, Van Duzee, Can. Ent., xxv, p. 285, 1893.

2156. **Euscelis curtisii** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 61, 1851, *Amblycephalus.*
Walker, List Homop., iv, p. 1159, 1852; Suppl., p. 348, 1858, *Tettigonia.*
Provancher, Pet. Faune Ent. Can., iii, p. 278, 1889, *Deltocephalus.*
Van Duzee, Psyche, v, p. 290, 1890, *Athysanus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Athysanus.*
Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894, *Athysanus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 221, 1897, *Athysanus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 1, 1898, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 251, 1902, *Athysanus.*
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904, *Athysanus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905, *Athysanus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905, *Athysanus.*

Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Van Duzee, Can. Ent., xliv, p. 328, 1912, *Athysanus.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 91, fig. 22, 1912, *Athysanus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 125, 1915, *Athysanus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus.*
nervatus Provancher, Nat. Can., iv, p. 378, 1872, *Jassus.*
Localities: Quebec, Ont., Me., N. H., Vt., N. Y., N. J., Pa., Ohio, Tenn., Mich., Ia., Mo.

2157. **Euscelis bicolor** (Van D.)

Van Duzee, Can. Ent., xxiv, p. 114, 1892, *Athysanus.*
Weed, Can. Ent., xxiv, p. 279, 1892, *Athysanus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 222, 1897, *Athysanus.*
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 91, pl. 5, fig. 2, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 251, 1902, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 222, 1909, *Athysanus.*
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910, *Athysanus.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 92, fig. 23, 1912, *Athysanus.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phrynomorphus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 62, 1916, *Athysanus.*
virgulatus Uhler, Proc. Zool. Soc. Lond. for 1895, p. 78, *Deltocephalus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Deltocephalus.*
Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900, *Deltocephalus.*
Localities: N. J., D. C., Va., N. C., Ga., Fla., Miss., Ohio, Mich., Tenn., Ill., Ia., Neb., Kans. (Neotropical.)

2158. **Euscelis obtutus** (Van D.)

Van Duzee, Can. Ent., xxiv, p. 115, 1892, *Athysanus* (misprinted *obtusus*).
Van Duzee, Can. Ent., xxiv, p. 156, 1892, *Athysanus* (spelling corrected).
Weed, Can. Ent., xxiv, p. 279, 1892, *Athysanus.*
Van Duzee, Can. Ent., xxv, p. 285, 1893, *Athysanus.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 222, pl. 21, fig. 2, 1897, *Athysanus.*
Osborn and Ball, Ohio Nat., ii, p. 252, 1902, *Athysanus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 222, 1909, *Athysanus.*
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 93, fig. 24, 1912, *Athysanus.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915, *Athysanus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915, *Athysanus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 63, 1916, *Athysanus.* [*morphus.*
§*obtusus* Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914, *Phryno-*
Localities: Md., D. C., N. C., S. C., Ga., Fla., Miss., Tenn., Ia., Kans., Mo.

[**Euscelis ignotus** (Baker) MS]

Smith, Cat. Ins. N. J., edn. 2, p. 95, 1900, *Athysanus.*
Locality: N. J.

2159. **Euscelis villicus** (Crmb.)

Crumb, Ann. Ent. Soc. Am., viii, p. 194, 1915, *Athysanus.*
Locality: Tenn.

Genus **Eutettix** Van D.
Orthotype *lurida* (Van D.)

Van Duzee, Psyche, vi, p. 307, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Matsumura, Termes Fuzet., xxv, p. 380, 1902.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 331, 1906; iii, p. 53, 1907.
Ball, Proc. Dav. Acad. Sci., xii, p. 27, 1907 (monograph).
Distant, Fauna Brit. Ind. Rhyn., iv, pp. 351, 362, 1908.
Van Duzee, Can. Ent., xli, p. 384, 1909 (citing *lurida* as type).
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 65, 1916.

2160. **Eutettix luridus** (Van D.)

Van Duzee, Can. Ent., xxii, p. 250, 1890, *Thamnotettix.*
Van Duzee, Psyche, vi, p. 307, 1892.
Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 36, pl. i, fig. 4, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Localities: N. H., N. Y., N. J., Md., D. C., Ga., Fla., Mich., Ia.

2161. **Eutettix marmoratus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 302, 1892.
Ball, Proc. Dav. Acad. Sci., xii, p. 35, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 66, 1916.
incerta Gillette and Baker, Hemip. Colo., p. 100, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Localities: Mass., N. Y., N. J., D. C., N. C., Fla., Ohio, Tenn., N. D., Colo.

2162. **Eutettix southwicki** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 209, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 36, pl. 1, fig. 3, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
brunneus Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.
Localities: N. Y., N. J., Md., D. C., Ia., Colo.(?).

2163. **Eutettix subaeneus** (Van D.)

Van Duzee, Ent. Am., vi, p. 77, 1890, *Thamnotettix.*
Van Duzee, Psyche, vi, p. 307, 1892, *Thamnotettix.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 303, 1892.
Ball, Proc. Dav. Acad. Sci., xii, p. 37, pl. 1, fig. 5, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
?Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915.
?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
?DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 66, 1916.
Localities: Me.(?), N. C.(?), Tenn.(?), Colo., Calif.

2164. **Eutettix querci** G. & B.

Gillette and Baker, Hemip. Colo., p. 101, 1895.
Ball, Proc. Dav. Acad. Sci., xii, p. 37, pl. 1, fig. 5, 1907.
Localities: D. C.(?), Colo., Utah.

2165. **Eutettix tristis** Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 34, pl. 1, fig. 2, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Localities: N. J., Md., D. C., Ga., Fla.

2166. **Eutettix bartschi** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 223, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Locality: Fla.

2167. **Eutettix pictus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 301, 1892.
Ball, Proc. Dav. Acad. Sci., xii, p. 34, pl. 1, fig. 1, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 65, 1916.
magnus Osborn, Ent. News, xi, p. 395, 1900.
Localities: Pa., N. J., Md., D. C., Fla., Tenn., Ind., Ark.

2168. **Eutettix slossoni** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 210, 1894; ix, p. 222, 1908.
Ball, Proc. Dav. Acad. Sci., xii, p. 35, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Localities: Mass., N. J., D. C., Fla., Texas.

2169. **Eutettix nitens** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 223, 1909.
Locality: Fla.

2170. **Eutettix johnsoni** Van D.

Van Duzee, Can. Ent., xxvi, p. 137, 1894.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 66, pl. 3, fig. 8, 1907, *Mesamia*.
Smith, Cat. Ins. N. J., edn. 3, p. 104, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.
Localities: Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ohio, Tenn., Ia.

2171. **Eutettix animanus** Ball

Ball, Can. Ent., xli, p. 81, 1909, *Mesamia*.
Locality: Colo.

2172. **Eutettix auratus** Ball

Ball, Can. Ent., xli, p. 81, 1909, *Mesamia*.
Locality: D. C.

2173. **Eutettix clarivida** Van D.

Van Duzee, Can. Ent., xxvi, p. 138, 1894.
Gillette and Baker, Hemip. Colo., p. 100, 1895.
Ball, Proc. Dav. Acad. Sci., xii, p. 38, pl. 1, fig. 6, 1907.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Localities: Mo., Colo., Utah.

2174. **Eutettix osborni** Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 39, pl. 1, fig. 7, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Localities: Mo., Texas, Calif.

2175. **Eutettix insanus** Ball

Ball, Can. Ent., xxxii, p. 203, 1900.
Ball, Proc. Dav. Acad. Sci., xii, p. 39, pl. 1, fig. 8, 1907.

a. var. **coronatus** Ball.

Ball, Can. Ent., xlviii, p. 127, 1916.
Localities: Colo., Utah, Calif.

2176. **Eutettix pauperculus** (Ball)

Ball, Can. Ent., xxxv, p. 228, 1903, *Phlepsius.*
Ball, Proc. Dav. Acad. Sci., xii, p. 40, pl. 1, fig. 9, 1907.
Localities: Colo., Utah.

2177. **Eutettix strictus** Ball

Ball, Can. Ent., xxxii, p. 204, 1900.
Ball, Proc. Dav. Acad. Sci., xii, p. 41, pl. 1, fig. 10, 1907.
Localities: Colo., Texas, Ariz. (Mexico.)

2178. **Eutettix tenellus** (Bak.)

Gillette and Baker, Hemip. Colo., p. 100, 1895, *Thamnotettix* (a MS name).
Baker, Psyche, vii, Suppl., p. 24, 1896, *Thamnotettix.*
Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 35, pl. 1, fig. 1, 1904.
Ball, Proc. Dav. Acad. Sci., xii, p. 41, pl. 1, fig. 11, pl. 4, figs. 4, 5, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Essig, Inj. Benif. Ins. Calif., edn. 2, p. 64, 1915.
Localities: Colo., Utah, N. Mex., Ariz., Calif.

2179. **Eutettix seminudus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 307, 1831; Compl. Writ., ii, p. 383, *Jassus.*
Harris *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus.*
Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus.*
Dimmock, Psyche, iv, p. 241, 18—, *Bythoscopus.*
Uhler, Stand. Nat. Hist., ii, p. 246, 1884, *Thamnotettix.*
Provancher, Pet. Faune Ent. Can., iii, p. 285, 1889, *Thamnotettix.*
Van Duzee, Psyche, v, p. 389, 1890, *Athysanus.*
Packard, 5th Rept. U. S. Ent. Comm., p. 513, 1890, *Bythoscopus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Thamnotettix.*
Van Duzee, Psyche, vi, p. 307, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 529, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 42, pl. 2, fig. 1, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 22, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 66, 1916.
Localities: Quebec, Ont., Mass., Conn., N. Y., Pa., Md., D. C., N. C., Miss., Ohio, Tenn., Ind., Ill., Ia., Mo., Kans., Texas.

2180. **Eutettix cinctus** O. & B.

Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 97, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 530, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 64, pl. 4, fig. 1, 1907, *Mesamia.*
Smith, Cat. Ins. N. J., edn. 3, p. 103, 1910, *Mesamia.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.
†*jucunda* Van Duzee, Psyche, vi, p. 307, 1892.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 297, 1894.
Localities: N. Y., N. J., Pa., Md., D. C., Miss., Tenn., Ia., Colo., Texas.

2181. **Eutettix strobi** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus.*
Walker, List Homop., iii, p. 876, 1851, *Bythoscopus.*
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857, *Bythoscopus.*
Rathvon *in* Mombert, Hist. Lanc. Co., Pa., p. 551, 1869, *Bythoscopus.*
Packard, 5th Rept. U. S. Ent. Comm., p. 802, 1890, *Bythoscopus.*
Van Duzee, Psyche, v, p. 390, 1890, *Phlepsius.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 67, 1892; xxi, p. 299, 1894, *Phlepsius.*
Baker, Psyche, vii, Suppl., i, p. 24, 1896.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 531, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 44, pl. 2, fig. 2, pl. 4, fig. 3, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 49, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 67, 1916.
Localities: Ont., Me., Mass., Conn., N. Y., N. J., Pa., D. C., N. C., Ohio, Tenn., Mo., Ia., Neb., Kans., Colo., Utah, Texas.

2182. **Eutettix scitulus** Ball

Ball, Can. Ent., xxxiii, p. 47, 1901.
Ball, Proc. Dav. Acad. Sci., xii, p. 45, pl. 2, fig. 3, 1907.
Ball, U. S. Dept. Agr., Bur. Ent., Bul. 66, pt. 4, p. 49, pl. 1, fig. 3, 1909.
†*seminuda* Gillette and Baker, Hemip. Colo., p. 102, 1895.
Baker, Psyche, vii, Suppl., i, p. 24, 1896.
Localities: Colo., Utah, N. Mex., Ariz.

2183. **Eutettix pullatus** Ball

Ball, Can. Ent., xxxiii, p. 48, 1901.
Ball, Proc. Dav. Acad. Sci., xii, p. 46, pl. 2, fig. 4, 1907.
Localities: Colo., Utah, N. Mex., Ariz.

2184. **Eutettix perelegantis** Ball

Ball, Can. Ent., xxxiii, p. 46, 1901.
Ball, Proc. Dav. Acad. Sci., xii, p. 47, pl. 2, fig. 5, 1907.
Localities: Colo., Utah.

2185. **Eutettix mildredae** Ball

Ball, Can. Ent., xxxiii, p. 45, 1901.
Ball, Proc. Dav. Acad. Sci., xii, p. 48, pl. 2, fig. 6, 1907.
Localities: Colo., N. Mex., Ariz.

2185½. **Eutettix columbianus** Ball

Ball, Can. Ent., xlviii, p. 125, 1916.
Locality: Wash.

2186. **Eutettix amandus** Ball

Ball, Can. Ent., xli, p. 82, 1909.
Locality: Ariz.

2187. **Eutettix snowi** Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 49, pl. 2, fig. 7, 1907.
Locality: Ariz.

2188. **Eutettix saucius** Ball

Ball, Can. Ent., xxxiii, p. 46, 1901.
Ball, Proc. Dav. Acad. Sci., xii, p. 49, pl. 2, fig. 8, 1907.
Localities: Colo., Utah, Calif.

2188½. **Eutettix nevada** Ball

Ball, Can. Ent., xlviii, p. 126, 1916.
Locality: Nevada.

2189. **Eutettix pulchellus** Bak.

Baker, Psyche, vii, Suppl., i, p. 24, 1896.
Ball, Proc. Dav. Acad. Sci., xii, p. 50, pl. 2, fig. 9, 1907.

a. var. **scaber** O. & B.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 96, 1898.
Localities: Ia., N. Mex., Ariz.

2190. **Eutettix albidus** (Ball)

Ball, Can. Ent., xxxii, p. 203, 1900, *Phlepsius.*
Ball, Proc. Dav. Acad. Sci., xii, p. 51, pl. 2, fig. 10, 1907.
Localities: Colo., Utah, Ariz.

2191. **Eutettix ziczac** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 195, 1915.
Locality: Texas.

2192. **Eutettix pannosus** Ball

Ball, Can. Ent., xxiv, p. 12, 1902.
Ball, Proc. Dav. Acad. Sci., xii, p. 51, pl. 2, fig. 11, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Locality: Calif.

2192½. **Eutettix rubidus** Ball

Ball, Can. Ent., xlviii, p. 126, 1916.
Locality: Utah.

2193. **Eutettix texanus** Ball

Ball, Proc. Dav. Acad. Sci., xii, p. 52, 1907.
Locality: Texas.

2194. **Eutettix bicoloratus** Ball

Ball, Can. Ent., xxxvii, p. 212, 1905.
Ball, Proc. Dav. Acad. Sci., xii, p. 53, pl. 2, fig. 12, 1907.
Localities: Ark., Utah.

Genus **Phlepsius** Fieb.
Haplotype *intricatus* (H. S.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 503, 1866.
Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.
Signoret, Ann. Soc. Ent. Fr., ser. 5, x, p. 68, 1880.
Mayr, Tabellen, p. 32, 1884.
Van Duzee, Trans. Am. Ent. Soc., xix, pp. 63, 300, 1892.
Melichar, Cicad. Mitt. Eur., p. 204, 1896.
Matsumura, Termes. Fuzet., xxv, p. 382, 1902.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 346, 1908.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 68, 1916.
†*Allygus* Uhler, Stand. Nat. Hist., ii, p. 245, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 286, 1889.
Paraphlepsius Baker, Can. Ent., xxix, p. 158, 1897 (orthotype *ramosus* Bak.)
Parallygus Melichar, Homop. Ceylon, p. 179, 1903 (haplotoype *divaricatus* [Melich.).

2195. **Phlepsius majestus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 229, pl. 26, fig. 6, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 76, 1916.
Localities: N. Y., N. J., Pa., Miss., Ohio, Tenn., Ia., Kans.

2196. **Phlepsius spatulatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 78, 1892.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
personatus Baker, Can. Ent., xxx, p. 30, 1898.
?Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Ia., Utah, Texas, Ariz., Calif.

2197. **Phlepsius excultus** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877, *Jassus.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 80, 1892.
Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.
[*infumatus* and *scalaris* Uhler MS] in collections.
Localities: Mass., N. Y., N. J., Pa., N. C., Ga., Fla., Tenn., Ill., Kans., Minn., Colo., Texas.

2198. **Phlepsius neomexicanus** Bak.

Baker, Psyche, vii, Suppl., i, p. 13, 1895.
Locality: N. Mex.

2199. **Phlepsius superbus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 81, 1892.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.
Localities: N. C., Ga., Tenn., Mo., Texas, Ariz., Nev., Calif.

2200½. **Phlepsius distinctus** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 129, 1917.
Locality: S. C.

2200. **Phlepsius areolatus** Bak.

Baker, Can. Ent., xxx, p. 30, 1898.
Locality: Kans.

2201. **Phlepsius decorus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 230, pl. 26, fig. 7, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 141, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 76, 1916.
Localities: Ont., Me., N. Y., N. J., Pa., Fla., Ohio, Tenn., Ia., Neb., Kans.

2202. **Phlepsius ovatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 79, 1892.
Gillette and Baker, Hemip. Colo., p. 94, 1895.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 75, 1916.
Localities: Tenn., Kans., Texas, Colo., Utah, Calif.

2203. **Phlepsius graphicus** Ball

Ball, Can. Ent., xxxii, p. 201, 1900.
Localities: Neb., Colo.

2204. **Phlepsius cumulatus** Ball

Ball, Can. Ent., xxxii, p. 202, 1900.
Van Duzee, Trans. Am. Ent. Soc., xxix, p. 112, 1903.

a. var. **arctostaphylae** Ball

Ball, Can. Ent., xxxii, p. 202, 1900.
Localities: Colo., Utah, N. Mex.

2205. **Phlepsius attractus** Ball

Ball, Can. Ent., xli, p. 77, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Locality: Fla.

2206. **Phlepsius floridanus** Ball

Ball, Can. Ent., xli, p. 78, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Locality: Fla.

2207. **Phlepsius utahnus** Ball

Ball, Can. Ent., xli, p. 79, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Utah, Calif.

2208. **Phlepsius tigrinus** Ball

Ball, Can. Ent., xli, p. 80, 1909.
Locality: D. C.

2209. **Phlepsius costomaculatus** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 207, 1894, *Allygus*.
Osborn, Ohio Nat., ix, p. 460, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
pulchripennis Baker, Ent. News, ix, p. 65, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
Localities: Fla., Texas. (Guatemala.)

2210. **Phlepsius lippulus** Ball

Ball, Can. Ent., xxxv, p. 227, 1903.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Localities: Fla.

2210½. **Phlepsius carolinus** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 127, 1917.
Locality: S. C.

2211. **Phlepsius franconianus** Ball

Ball, Can. Ent., xxxv, p. 228, 1903.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.
Localities: Me., N. H.

2212. **Phlepsius uhleri** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 67, 1892.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Localities: N. J., Md.

2213. **Phlepsius josea** Ball

Ball, Can. Ent., xxxii, p. 347, 1900.
Locality: Colo.

2214. **Phlepsius extremus** Ball

Ball, Can. Ent., xxxiii, p. 10, 1901.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Localities: Colo., Calif.

2215. **Phlepsius maculatus** Osb.

Osborn, Ohio Nat., v, p. 276, 1905.
Locality: Ohio.

2216. **Phlepsius maculellus** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 141, 1915.
Locality: Me.

2217. **Phlepsius nigrifrons** Ball

Ball, Can. Ent., xxxvii, p. 210, 1905.
Locality: Ark.

2218. **Phlepsius vanduzei** Ball

Ball, Can. Ent., xxxiii, p. 9, 1901.
Localities: Colo., Utah.

2219. **Phlepsius denudatus** Ball

Ball, Can. Ent., xxxiii, p. 11, 1901.
Locality: Colo.

2219¼. **Phlepsius loculatus** Ball

Ball, Can. Ent., xlviii, p. 128, 1916.
Localities: Utah, Calif.

2219½. **Phlepsius stellaris** Ball

Ball, Can. Ent., xlviii, p. 129, 1916.
Locality: Utah.

2220. **Phlepsius lascivius** Ball

Ball, Can. Ent., xxxii, p. 200, 1900.
Localities: Neb., Colo., Utah.

2221. **Phlepsius altus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 228, pl. 26, fig. 5, 1897.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 99, pl. 6, fig. 3, 1898.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
mimus Baker, Ent. News, ix, p. 67, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 224, 1909.
Localities: N. J., Md., Fla., Ia., Neb., Kans.

2222. **Phlepsius pallidus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 69, 1892.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Localities: Mo., Texas.

2223. **Phlepsius incisus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 73, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 71, 1916.
Localities: Ont., Me., N. Y., Pa., Mich., Tenn.

2223½. **Phlepsius umbrosus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 88, 1917.
Locality: Wis.

2224. **Phlepsius tubus** Ball

Ball, Can. Ent., xli, p. 78, 1909.
Locality: D. C.

2225. **Phlepsius pusillus** Bak.

Baker, Ent. News, ix, p. 66, 1898.
Locality: Md.

2226. **Phlepsius fuscipennis** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 70, 1892.
Southwick, Science, xix, p. 287, 1892.
Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 71, 1916.
Localities: N. Y., N. J., Fla., Tenn.

2227. **Phlepsius turpiculus** Ball

Ball, Can. Ent., xxxii, p. 200, 1900.
Localities: Ont., N. Y., Neb. Colo.

2227½. **Phlepsius bifidus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 89, 1917.
Locality: Wis.

2228. **Phlepsius irroratus** (Say)

Say, Jl. Acad. Sci. Phila., vi, p. 308, 1831; Compl. Writ., ii, p. 384, *Jassus.*
Harris *in* Hitchcock, Geol. Mass., edn. 2, p. 580, 1835, *Jassus.*
Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus.*
Walker, List Homop., iii, p. 894, 1851; iv, p. 1164, 1852, *Jassus.*
Packard, Guide to Study of Insects, p. 532, 1869, *Jassus.*
Rathvon *in* Mombert, Hist. Lanc. Co., Pa., p. 551, 1869, *Jassus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 467, 1877; iv, p. 511, 1878, *Jassus.*
Lintner, 1st Rept. N. Y. St. Ent., p. 331, 1882, *Jassus.*
Uhler, Stand. Nat. Hist., ii, p. 245, 1884, *Allygus.*
Van Duzee, Can. Ent., xxi, p. 11, 1889, *Allygus.*
Van Duzee, Ent. Am., vi, p. 93, 1890.
Van Duzee, Psyche, v, p. 389, 1890.
Provancher, Pet. Faune Ent. Can., iii, p. 286, 1890, *Allygus.*
Provancher, Nat. Can., xix, p. 248, 1890, *Allygus.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 71, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 533, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.

Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 94, fig. 25, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 139, 1915.
Gibson, Can. Ent., xlviii, p. 178, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.
testudinarius Burmeister, Genera Ins., i, pl. 14, 1838, *Jassus.*
§*inornatus* Packard, U. S. Ent. Comm., Bul. 7, p. 80, 1881, *Jassus* (*inoratus*).
Packard, 5th Rept. U. S. Ent. Comm., p. 324, 1890, *Jassus.*
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ohio, Tenn., Ill., Ia., Mo., Kans., Ark., Colo., Utah.

2229. **Phlepsius latifrons** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 66, 1892.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.
Localities: Md., Tenn.

2230. **Phlepsius collitus** Ball

Ball, Can. Ent., xxxv, p. 227, 1903.
Osborn, Ohio Nat., v, p. 275, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 142, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 73, 1916.
Localities: Ont., Me., Mass., N. Y., N. J., D. C., N. C., Fla., Ohio, Tenn., Iowa.

2230½. **Phlepsius tullahomi** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 73, 1916.
Locality: Tenn.

2231. **Phlepsius truncatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 72, 1892.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 225, 1909.
Smith, Cat. Ins. N. J., edn. 2, p. 105, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.
Localities: Pa., N. C., Fla., Tenn., Ia.

2231½. **Phlepsius torridus** Lthr.

Lathrop, Ohio Jl. Sci., xvii, p. 126, 1917.
Locality: S. C.

2232. **Phlepsius cinereus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 68, 1892.
Gillette and Baker, Hemip. Colo., p. 94, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.
Localities: N. C., Fla., Miss., Tenn., Mo., Texas, Colo. (West Indies.)

2233. **Phlepsius texanus** Bak.

Baker, Can. Ent., xxx, p. 31, 1898.
Locality: Texas.

2234. **Phlepsius lobatus** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 247, 1898.
Locality: Ia.

2235. **Phlepsius punctiscriptus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 75, 1892.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 44, 1916.
Localities: Fla., Tenn., Kans., Texas.

2235½. **Phlepsius tennessa** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 75, 1916.
similis Lathrop, Ohio Jl. Sci., xvii, p. 128, 1917.
Localities: S. C., Tenn.

2236. **Phlepsius apertus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 76, 1892.
Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Can. Ent., xl, p. 158, 1908.
?Gibson and Cogan, Ohio Jl. Sci., xvi, p. 75, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 140, 1915; Bul. 248, p. 79, 1916.
Localities: Quebec, Ont., Me., N. Y., Mo.(?), Br. Col.

2237. **Phlepsius fulvidorsum** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 62, 1851, *Jassus.*
Walker, List Homop., iii, p. 894, 1851, *Jassus.*
Van Duzee, Psyche, v, p. 390, 1890.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 74, 1892.
Southwick, Science, xix, p. 287, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Can. Ent., xl, p. 158, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 142, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 72, 1916.
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., N. C, Ohio, Tenn., Ia., Mont., Texas.

2238. **Phlepsius optatus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 194, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 70, 1916.
Locality: Tenn.

2239. **Phlepsius rileyi** Bak.

Baker, Can. Ent., xxx, p. 32, 1898.
Locality: Texas.

2240. **Phlepsius fastuosus** Ball

Ball, Can. Ent., xxxvii, p. 210, 1905.
Locality: N. Mex.

2241. **Phlepsius slossoni** Ball

Ball, Can. Ent., xxxvii, p. 209, 1905.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Localities: N. C., Fla.

2242. **Phlepsius nudus** Ball

Ball, Can. Ent., xliii, p. 204, 1911.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Locality: Fla.

2243. **Phlepsius occidentalis** Bak.

Baker, Ent. News, ix, p. 66, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
Localities: Calif., Wash.

2244. **Phlepsius nebulosus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 77, 1892.
Osborn and Ball, Proc. Dav. Acad. Sci., vii, p. 100, pl. 6, fig. 4, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.
Localities: N. H., Mass., N. Y., N. J., Fla., Miss., Ia., Dak., Neb., Colo., Manitoba.

2245. **Phlepsius dentatus** Bak.

Baker, Ent. News, ix, p. 65, 1898.
Locality: Md.

2246. **Phlepsius solidaginis** (Walk.)

Walker, List Homop., iii, p. 847, 1851, *Acocephalus.*
Van Duzee, Can. Ent., xli, p. 384, 1909.
humidus Van Duzee, Trans. Am. Ent. Soc., xix, p. 76, 1892.
Southwick, Science, xix, p. 288, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 199, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 223, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 532, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 74, 1916.
Localities: Ont., Me., N. H., Conn., N. Y., N. J., Pa., Md., Tenn.

2246½. **Phlepsius brunneus** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 74, 1916.
Locality: Tenn.

2247. **Phlepsius ramosus** (Bak.)

Baker, Can. Ent., xxix, p. 158, 1897, *Paraphlepsius.*
Localities: N. Y., Ohio.

Genus **Dorydiella** Bak.
Orthotype *floridana* Bak.

Baker, Can. Ent., xxix, p. 159, 1897.

2248. **Dorydiella floridana** Bak.

Baker, Can. Ent., xxix, p. 159, 1897.
Localities: Mass., Fla.

Genus **Acinopterus** Van D.
Haplotype *acuminatus* Van D.

Van Duzee, Psyche, v, p. 307, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 299, 1892.
Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.

2249. **Acinopterus acuminatus** Van D.

Van Duzee, Psyche, vi, p. 308, 1892.
Gillette and Baker, Hemip. Colo., p. 94, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907; ix, p. 225, 1909.
Osborn, Ohio Nat., ix, p. 466, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 534, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 54, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 23, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.

a. var. **inornatus** (Bak.)
Baker, Psyche, vii, Suppl., i, p. 13, 1895, *Phlepsius.*
variegatus Ball, Can. Ent., xxxv, p. 231, 1903.

b. var. **viridis** Ball
Ball, Can. Ent., xxxv, p. 231, 1903.

c. var. **brunneus** Ball
Ball, Can. Ent., xxxv, p. 231, 1903.
Localities: N. J., Pa., Md., D. C., N. C., Fla., Tenn., Colo., Utah, Ariz., Calif. (Neotropical.)

Genus **Allygus** Scott
Logotype *mixtus* (Fabr.)

Fieber, Kat. Eur. Cicad., p. 13, 1872 (catalogue name).
Scott, Ent. Mo. Mag., xii, p. 169, Dec. 1875 (for *mixtus* and *commutatus*).
Fieber, Cicad. d'Eur., i, p. 123, 1875; ii, pl. 13, 1876.
Melichar, Cicad. Mitt. Eur., p. 251, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 164, 1896.
Van Duzee, Check List Hemip., p. 73, 1916.
†*Jassus* Mayr, Tabellen, p. 34, 1884.
Puton, Cat. Hemip. Palae., edn. 3, p. 84, 1886.
Matsumura, Termes. Fuzet., xxv, pp. 356, 401, 1902.
Oshanin, Verz. Palae. Hemip., ii, p. 135, 1906.
Oshanin, Kat. Palae. Hemip., p. 107, 1912 (names *atomarius* Fabr. type).

2250. **Allygus gutturosus** (Ball)

Ball, Can. Ent., xlii, p. 307, 1910, *Thamnotettix.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914, *Thamnotettix.*
Locality: Calif.

Genus **Thamnotettix** Zett.
Logotype *prasinus* Fall.

Zetterstedt, Ins. Lapp., column 292, 1840.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.
Stål, Hemip. Afr., iv, pp. 101, 122, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 81, 82, 1868.
Stål, Hemip. Fabr., ii, p. 82, 1869.
Sahlberg, Cicad., pp. 70, 207, 1871.
Scott, Ent. Mo. Mag., xii, p. 21, 1875.
Fieber, Cicad. d'Eur., i, p. 122, 1875; ii, pl. 12, 1876.
Mayr, Tabellen, p. 33, 1884.
Fieber, Revue d'Ent., iv, p. 59, 1885 (monograph European species).
Edwards, Trans. Ent. Soc. Lond. for 1888, pp. 33, 62.
Woodworth, Psyche, v, p. 75, 1888.
Provancher, Pet. Faune Ent. Can., iii, p. 283, 1889.
Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Melichar, Cicad. Mitt. Eur., p. 281, 1896.
Matsumura, Termes. Fuzet, xxv, p. 366, 1902.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 354, 1908.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 77, 1916.
†*Cicadula* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 506, 1866.

2251. **Thamnotettix kennicotti** (Uhl.)

Uhler, Proc. Am. Ent. Soc., ii, p. 161, 1863, *Jassus.*
Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Slosson, Ent. News, vi, p. 5, 1895.
Gillette and Baker, Hemip. Colo., p. 98, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.
Localities: Me., N. H., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Ohio, Tenn., Colo., Br. Col.

2252. **Thamnotettix subcupraeus** (Prov.)

Provancher, Nat. Can., iv, p. 277, 1872, *Jassus.*
Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 227, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Van Duzee, Can. Ent., xliv, p. 328, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Localities: Quebec., Ont., N. H., N. Y., N. J., Fla., Assiniboine.

2253. **Thamnotettix brittoni** Osb.

Osborn, Proc. Dav. Acad. Sci., x, p. 166, 1907.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.
Localities: Conn., N. C., Tenn.

2254. **Thamnotettix osborni** Ball

Ball, Can. Ent., xxxii, p. 337, 1900.
Localities: Neb., Colo.

2255. **Thamnotettix schwarzi** Ball

Ball, Can. Ent., xliii, p. 197, 1911 (spelled *schwartzi*).
Localities: Utah, Ariz.

2256. **Thamnotettix geminatus** Van D.

Van Duzee, Ent. Am., vi, p. 79, 1890.
Gillette and Baker, Hemip. Colo., p. 98, 1895.
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 96, fig. 26, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
†*laeta* Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.
Localities: Colo., Calif., Wash., Alaska.

2257. **Thamnotettix fasciaticollis** (Stål)

Stål, Stet. Ent. Zeit., xxv, p. 86, 1864, *Jassus*.
Van Duzee, Psyche, vi, p. 306, 1892.
Localities: Calif.(?). (Mexico.)

2258. **Thamnotettix kirkaldyi** Ball

Ball, Can. Ent., xliii, p. 197, 1911.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2259. **Thamnotettix atropunctatus** Van D.

Van Duzee, Ent. Am., vi, p. 91, 1890.
Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2260. **Thamnotettix coquilletti** Van D.

Van Duzee, Ent. Am., vi, p. 77, 1890.
Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: Colo., Calif.

2261. **Thamnotettix heidemanni** Ball

Ball, Can. Ent., xxxii, p. 338, 1900.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: Colo., Calif.

2262. **Thamnotettix cockerelli** Ball

Ball, Can. Ent., xxxii, p. 339, 1900.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.
Localities: Me., Colo.

2263. **Thamnotettix morsei** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 134, 1915.
Locality: Me.

2264. **Thamnotettix graeculus** Ball

Ball, Can. Ent., xxxiii, p. 6, 1901.
Locality: Colo.

2265. **Thamnotettix clitellarius** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 309, 1831; Compl. Writ., ii, p. 384,
Harris *in* Hitchcock, Geol. of Mass., edn. 2, p. 580, 1835, *Jassus.* [*Jassus.*
Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus.*
Walker, List Homop., iii, p. 876, 1851, *Bythoscopus;* iv, p. 1164, 1852, *Jassus.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 359, 365, 1856, *Bythoscopus.*
Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
Saunders, Ins. Inj. to Fruits, p. 188, 1886, *Bythoscopus.*
Van Duzee, Psyche, v, p. 389, 1890.
Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.
Harrington, Ottawa Nat., vi, p. 32, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Psyche, vi, p. 306, 1893.
Cockerell, Trans. Am. Ent. Soc., xx, p. 365, 1893, *Bythoscopus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 224, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta. Bul., 238, p. 134, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 78, 1916.
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., Ohio, Tenn., Mo., Kans., Colo.

2266. **Thamnotettix eburatus** Van D.

Van Duzee, Can. Ent., xxi, p. 10, 1889.
?Wirtner, Ann. Carn. Mus., iii, p. 224, 1904 (spelled *oburata*).
Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906; xl, p. 159, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 133, 1915.
?citronellus Provancher, Pet. Faune Ent. Can., iii, p. 283, 1890 (not of 1872).
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Localities: Ont., Me., N. Y., Pa.(?).

2267. **Thamnotettix furculatus** Osb.

Osborn, Ohio Nat., v, p. 275, 1905.
Locality: Ohio.

2268. **Thamnotettix pasadena** Ball

Ball, Can. Ent., xlvi, p. 212, 1914.
Locality: Calif.

2269. **Thamnotettix collaris** Ball

Ball, Can. Ent., xxxiv, p. 15, 1902.
exquisitos Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Locality: N. Y.

2270. **Thamnotettix mendicus** Ball

Ball, Can. Ent., xxxiv, p. 16, 1902.
Localities: Colo., Calif.

2271. **Thamnotettix rupinatus** Ball

Ball, Can. Ent., xliii, p. 199, 1911.
Locality: Calif.

2272. **Thamnotettix lucidus** Bak.

Baker, Psyche, vii, Suppl., i, p. 12, 1895.
Locality: N. Mex.

2273. **Thamnotettix intricatus** Ball

Ball, Can. Ent., xliii, p. 198, 1911.
Locality: Calif.

2274. **Thamnotettix montanus** Van D.

Van Duzee, Can. Ent., xxiv, p. 268, 1892.
Van Duzee, Psyche, vi, p. 306, 1892.
Gillette and Baker, Hemip. Colo., p. 99, 1895.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: Colo., Calif., Br. Col.

2275. **Thamnotettix belli** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 471, 1877, *Jassus.*
Van Duzee, Psyche, vi, p. 306, 1892.
Gillette and Baker, Hemip. Colo., p. 94, 1895.
Osborn, 20th Rept. N. Y. St. Ent., p. 534, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.
[*semipullatus* Van D., MS] Van Duzee, Psyche, vi, p. 306, 1892.
sonorae Gillette and Baker, Hemip. Colo., p. 100, 1895.
Baker, Ent. News, viii, p. 54, 1897.

a. var **gilletti** Van D.
Van Duzee, Can. Ent., xxiv, p. 267, 1892.
Van Duzee, Psyche, vi, p. 306, 1892.
Gillette and Baker, Hemip. Colo., p. 98, 1895.

b. var. **brunneus** Osb.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.
Localities: Quebec, Ont., Me., N. Y., N. C., Mich., Colo., Ariz., Br. Col.

2276. **Thamnotettix citrinifrons** G. & B.

Gillette and Baker, Hemip. Colo., p. 95, 1895.
Locality: Colo.

2277. **Thamnotettix aureolus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 213, 1894.
§*areolatus* Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914
Locality: Calif.

2278. **Thamnotettix aurantiacus** (Prov.)

Provancher, Nat. Can., iv, p. 377, 1872, *Jassus.*
Locality: Quebec.

2279. **Thamnotettix rufescens** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 135, 1915.
Locality: Me.

2280. **Thamnotettix flavocapitatus** Van D.

Van Duzee, Ent. Am., vi, p. 80, 1890.
Gillette and Baker, Hemip. Colo., p. 96, 1895 (spelled *flavicapitata*)
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Localities: Colo., Calif.

2281. **Thamnotettix waldanus** Ball

Ball, Can. Ent., xxxv, p. 229, 1903.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 133, 1915.
Localities: Ont., Me., Colo., Manitoba.

2282. **Thamnotettix januatus** Ball

Ball, Can. Ent., xlvi, p. 213, 1914.
Locality: Calif.

2283. **Thamnotettix limbatus** Van D.

Van Duzee, Ent. Am., vi, p. 92, 1890.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2284. **Thamnotettix perspicillatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 227, 1897.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.
Localities: Ia., Tenn.

2285. **Thamnotettix longulus** G. & B.

Gillette and Baker, Hemip. Colo., p. 97, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 226, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 82, 1916.
Localities: Pa., Tenn., Ia., Kans., Colo.

2286. **Thamnotettix atridorsum** Van D.

Van Duzee, Can. Ent., xxvi, p. 92, 1894.
Gillette and Baker, Hemip. Colo., p. 94, 1895.

a. var. **vescus** Ball
Ball, Can. Ent., xlii, p. 302, 1910.

b. var. **vetulus** Ball
Ball, Can. Ent., xlii, p. 302, 1910.
Localities: Colo., Utah, Calif.

2287. **Thamnotettix titusi** Ball
Ball, Can. Ent., xlii, p. 267, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.

a. var. **vivatus** Ball
Ball, Can. Ent., xlii, p. 302, 1910.
Localities: Nev., Calif., Oreg.

2288. **Thamnotettix vastulus** Ball
Ball, Can. Ent., xlii, p. 268, 1910.
Locality: Calif.

2289. **Thamnotettix vespertinus** Ball
Ball, Can. Ent., xlii, p. 301, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2290. **Thamnotettix visalius** Ball
Ball, Can. Ent., xlii, p. 301, 1910.
Van Duzee, Trans. San Diego So. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2291. **Thamnotettix gloriosus** Ball
Ball, Can. Ent., xlii, p. 303, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2292. **Thamnotettix chlamydatus** (Prov.)
Provancher, Pet. Faune Ent. Can., ii, p. 339, 1890, *Deltocephalus.*
Van Duzee, Ottawa Nat., xxvi, p. 68, 1912.
Van Duzee, Can. Ent., xliv, p. 329, 1912, *Athysanus.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 136, 1915.
infuscatus Gillette and Baker, Hemip. Colo., p. 98, 1895.
Osborn, 20th Rept. N. Y. St. Ent., p. 537, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
punctiscuta Gillette and Baker, Hemip. Colo., p. 99, 1895.
Baker, Ent. News, viii, p. 54, 1897.
Localities: Quebec, Me., N. H., N. Y., Mich., Colo.

2293. **Thamnotettix vapidus** Ball
Ball, Can. Ent., xlii, p. 305, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2294. **Thamnotettix dissimilatus** Ball
Ball, Can. Ent., xlii, p. 306, 1910.
Locality: Calif.

2295. **Thamnotettix ursinus** Ball
Ball, Can. Ent., xlii, p. 307, 1910.
Locality: Ore.

2296. **Thamnotettix languidus** Ball

Ball, Can. Ent., xxxiv, p. 17, 1902.
Locality: Calif.

2297. **Thamnotettix gemellus** Ball

Ball, Can. Ent., xlii, p. 303, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2298. **Thamnotettix generosus** Ball

Ball, Can. Ent., xlii, p. 304, 1910.
Locality: Calif.

2299. **Thamnotettix gerulus** Ball

Ball, Can. Ent., xlii, p. 304, 1910.
Localities: Calif., Ore.

2300. **Thamnotettix bullatus** Ball

Ball, Can. Ent., xxxiv, p. 17, 1902.
Locality: Calif.

2301. **Thamnotettix glomerosus** Ball

Ball, Can. Ent., xlii, p. 308, 1910.
Locality: Colo.

2302. **Thamnotettix shermani** Ball

Ball, Can. Ent., xxxv, p. 230, 1903.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 80, 1916.
Localities: N. C., Tenn.

2302¼. **Thamnotettix flavotinctus** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 82, 1916.
Locality: Tenn.

2302½. **Thamnotettix crumbi** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.
Locality: Tenn.

2303. **Thamnotettix orbonatus** Ball

Ball, Can. Ent., xxxv, p. 229, 1903.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Locality: Fla.

2304. **Thamnotettix caricis** G. & B.

Gillette and Baker, Hemip. Colo., p. 95, 1895.
lutea Gillette and Baker, Hemip. Colo., p. 106, 1895, *Cicadula*.
Baker, Ent. News, viii, p. 54, 1897.
Locality: Colo.

2305. **Thamnotettix melanogaster** (Prov.)

Provancher, Nat. Can., iv, p. 378, 1872, *Jassus*.
Provancher, Pet. Faune Ent. Can., iii, p. 284, 1890.
Van Duzee, Psyche, vi, p. 306, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 537, 1905.

Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 136, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 80, 1916.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., N. C., Ohio, Tenn.

2305½. **Thamnotettix stramineus** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 90, 1917 (figures).
Locality: Wis.

2306. **Thamnotettix ciliatus** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 244, 1898.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.
Localities: Me., Ia., Colo.

2307. **Thamnotettix decipiens** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 285, 1890.
Van Duzee, Psyche, vi, p. 306, 1892.
Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 137, 1915.
Localities: Quebec, Me., N. Y., Utah, Br. Col.

2308. **Thamnotettix smithi** Van D.

Van Duzee, Can. Ent., xxiv, p. 266, 1892.
Van Duzee, Psyche, vi, p. 306, 1892.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906.
Localities: Ont., N. J., Ia.

2309. **Thamnotettix venditarius** Ball

Ball, Can. Ent., xlii, p. 266, 1910.
Localities: Utah, Nev.

2310. **Thamnotettix longiseta** Van D.

Van Duzee, Can. Ent., xxiv, p 266, 1892.
Van Duzee, Psyche, vi, p. 306, 1892.
Gillette and Baker, Hemip. Colo., p. 99, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
Localities: Ia., Colo., Calif.

2311. **Thamnotettix gladiolus** Ball

Ball, Can. Ent., xliii, p. 309, 1910.
Locality: Colo.

2312. **Thamnotettix fitchii** Van D.

Van Duzee, Ent. Am., vi, p. 133, 1890.
Smith, N. J. Agr. Exp. Sta., Bul. K, p. 42, fig. 62, 1890.
Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 535, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 105, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
Osborn, Me. Agr. Exp. Sta., Bul., 238, p. 137, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 79, 1916.
[*Cicadula 4-punctata* Fitch MS] in collections.
Localities: Me., N. Y., N. J., Pa., N. C., Ohio, Tenn., Ill., Ia., Kans.

2313. **Thamnotettix pallidulus** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 245, 1898.
Locality: Ia.

2314. **Thamnotettix nigrifrons** (Forbes)

Forbes, 14th Rept. Ill. St. Ent., p. 67, pl. 5, fig. 3, 1864, *Cicadula.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 218, 1897 (part).
Osborn, U. S. Dept. Agr., Div. Ent., Bul. 108, p. 77, fig. 14, 1912 (part).
perpunctata Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 200, 212, 1894.
Baker, Psyche, viii, p. 116, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
Van Duzee, Can. Ent., xli, p. 128, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 25, 1915, *Deltocephalus.*
Localities: Mass., Conn., N. Y., N. J., Pa., N. C., Fla., Miss., La., Ohio, Ill., Ia., Colo.

2315. **Thamnotettix comatus** (Ball)

Ball, Can. Ent., xxxii, p. 343, 1900, *Deltocephalus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907; ix, p. 228, 1909.
§*cornata* Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Localities: Fla. (West Indies, Mexico.)

2316. **Thamnotettix colonus** (Uhl.)

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 80, *Deltocephalus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 69, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 533, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 51, 1916, *Deltocephalus.*
villicus Crumb, Ann. Ent. Soc. Am., viii, p. 194, 1915, *Athysanus.*
Localities: Fla. (West Indies.)

2317. **Thamnotettix emarginatus** G. & B.

Gillette and Baker, Hemip. Colo., p. 96, 1895.
Locality: Colo.

2318. **Thamnotettix inornatus** Van D.

Van Duzee, Trans. Am. Ent. Soc., xix, p. 303, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Can. Ent., xxxviii, p. 410, 1906; xl, p. 159, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 137, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 81, 1916.
Localities: Quebec, Ont., Me., N. Y., Tenn., Ia., Colo., Br. Col.

2318½. **Thamnotettix mellus** S. & D.
Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 91, 1917 (figures).
Locality: Wis.

2319. **Thamnotettix placidus** Osb.
Osborn, 20th Rept. N. Y. St. Ent., p. 536, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 138, 1915.
Localities: Me., N. Y.

2320. **Thamnotettix cypraceus** Osb.
Osborn, Proc. Ia. Acad. Sci., v, p. 245, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
Localities: N. Y., Ia.

2320½. **Thamnotettix vittipennis** S. & D.
Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 91, 1917 (figures).
Locality: Wis.

2321. **Thamnotettix umbraticus** Ball
Ball, Can. Ent., xlii, p. 309, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Calif.

2322. **Thamnotettix chiragricus** Ball
Ball, Can. Ent., xxxii, p. 337, 1900.
Locality: Ariz.

2323. **Thamnotettix(?) luctuosus** Stål
Stål, Freg. Eugenes Resa, Ins., p. 292, 1859.
Locality: Calif.

Genus **Chlorotettix** Van D.
Orthotype *unicolor* (Fitch)

Van Duzee, Psyche, vi, p. 306, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 83, 1916.

2324. **Chlorotettix unicolor** (Fitch)
Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus.*
Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus.*
Uhler, Bul. U. S. Geol. Geog. Surv., iv, p. 511, 1878, *Jassus.*
Uhler, Stand. Nat. Hist., ii, p. 246, 1884, *Grypotes.*
Van Duzee, Can. Ent., xxi, p. 9, 1889, *Grypotes.*
Provancher, Pet. Faune Ent. Can., iii, p. 286, 1890, *Jassus.*
Van Duzee, Psyche, v, p. 390, 1890, *Grypotes.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Grypotes.*
Harrington, Ottawa Nat., vi, p. 32, 1892, *Thamnotettix.*
Southwick, Science, xix, p. 288, 1892, *Athysanus.*
Van Duzee, Psyche, vi, pp. 306, 308, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Gillette and Baker, Hemip. Colo., p. 103, 1895.
Gillette, Psyche, ix, p. 173, 1901.

Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Can. Ent., xl, p. 159, 1908; xli, p. 384, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 144, 1915; Bul. 248, p. 76, 1916.
vanduzei Baker, Can. Ent., xxx, p. 219, 1898.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., D. C., Mo, Ia., Kans., Dak., Colo.

2325. **Chlorotettix vacunus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 196, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.
Locality: Tenn.

2326. **Chlorotettix spatulatus** O. & B.

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 225, pl. 26, fig. 4, 1897.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 86, 1916.
Localities: N. C., Fla., Tenn., Ia., Ohio, Neb., Kans., Colo.

2327. **Chlorotettix tergatus** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Bythoscopus.*
Walker, List Homop., iv, p. 1161, 1852, *Bythoscopus.*
Uhler, Stand. Nat. Hist., ii, p. 246, 1884, *Grypotes.*
Van Duzee, Psyche, v, p. 390, 1890, *Grypotes.*
Southwick, Science, xix, p. 288, 1892, *Athysanus.*
Van Duzee, Psyche, vi, pp. 306, 309, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 144, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.
a. var. **melanotus** DeL.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.
Localities: Ont., Me., N. Y., N. J., Pa., Fla., Ohio, Tenn., Mich Mo.

2327½. **Chlorotettix suturalis** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 85, 1916.
Locality: Tenn.

2328. **Chlorotettix rugicollis** Ball

Ball, Can. Ent., xxxv, p. 230, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 85, 1916.
Localities: N. J., Fla., Tenn., Texas.

2329. **Chlorotettix viridius** Van D.

Van Duzee, Psyche, vi, p. 309, 1892.
Southwick, Science, xix, p. 288, 1892, *Athysanus*.
Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 71, 1907; ix, p. 228, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 86, 1916.
§*viridis* Weed, Can. Ent., xxiv, p. 278, 1892.
Localities: N. Y., N. J., D. C., N. C., Ga., Fla., Tenn., Mo. (West Indies.)

2330. **Chlorotettix nacreosus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 196, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 89, 1916.
Locality: Tenn.

2331. **Chlorotettix galbanatus** Van D.

Van Duzee, Psyche, vi, p. 310, 1892.
Southwick, Science, xix, p. 288, 1892, *Athysanus*.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 538, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 67, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 143, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 26, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.
†*unicolor* Baker, Can. Ent., xxx, p. 219, 1898.
Localities: Me., N. Y., N. J., Pa., N. C., Fla., Miss., Ohio, Tenn., Mo., Kans.

2332. **Chlorotettix balli** Osb.

Osborn, Proc. Ia. Acad. Sci., v, p. 246, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.
Localities: N. Y., D. C., Ohio, Tenn., Ia.

2333. **Chlorotettix minimus** Bak.

Baker, Can. Ent., xxx, p. 220, 1898.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 71, 1907; ix, p. 228, 1909.
Localities: Fla. (Neotropical.)

2334. **Chlorotettix vividus** Crmb.

Crumb, Ann. Ent. Soc. Am., viii, p. 197, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 88, 1916.
Locality: Tenn.

2334½. **Chlorotettix borealis** S. & D.

Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 92, 1917 (figures).
Locality: Wis.

2335. **Chlorotettix tunicatus** Ball

Ball, Can. Ent., xxxii, p. 340, 1900.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.
Localities: Fla., Kans.

2336. **Chlorotettix lusorius** (O. & B.)

Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 226, 1897, *Thamnotettix.*
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.
Slosson, Ent. News, xvii, p. 326, 1906.
Osborn, Me. Agr. Sta., Bul. 238, p. 144, 1915.
Localities: Quebec, Ont., Me., N. H., Mass., N. Y., Pa., Ohio, Ia., Colo.

2336½. **Chlorotettix delta** Ball

Ball, Ent. News, xxvii, p. 205, 1916.
Locality: Ariz.

2337. **Chlorotettix necopinus** Van D.

Van Duzee, Can. Ent., xxv, p. 282, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 76, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 84, 1916.
Localities: Miss., Fla., Tenn., Mo.

2338. **Chlorotettix stolatus** Ball

Ball, Can. Ent., xxxii, p. 341, 1900.
Locality: Colo.

2339. **Chlorotettix nudatus** Ball

Ball. Can. Ent., xxxii, p. 340, 1900.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 87, 1916.
Localities: Tenn., Ia.

2339½. **Chlorotettix iridescens** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, pp. 83, 86, 1916.
Locality: Tenn.

DIVISION *JASSARIA* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, *Jassini.* (Tribe.)
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 324, 1906; iii, p. 73, 1907, *Jas-*
Distant, Fauna Brit. Ind., Rhyn., iv, p. 321, 1908, *Jassusaria.* [*sini.* (Tribe.)
Distant, Trans. Linn. Soc., Zool., xiii, p. 46, 1909, *Jassusaria.*
Baker, Phil. Jl. Sci., x, Sec. D., p. 49, 1915. (Key.)
Coelididae Dohrn, Cat. Hemip., p. 84, 1859.

Genus **Jassus** Fabr.
Orthotype *nervosus* **Fabr.**

Fabricius, Syst. Rhyng., p. 85, 1803.
Stål, Hemip. Afr., iv, p. 119, 1866.
Stål, Hemip. Fabr., ii, p. 78, 1869.
Stål, Of. Vet. Akad. Forh., xxvii, p. 735, 1870.
Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 3, 1878.
Berg, Hemip. Argent., p. 265, 1879.
Uhler, Stand. Nat. Hist., ii, p. 245, 1884.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 327, 1908.
Baker, Phil. Jl. Sci., x, Sec. D, p. 53, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 90, 1916.
Coelidia Germar, Mag. d. Ent., iv, pp. 38, 75, 1821.
Germar, Silb. Revue Ent., i, p. 181, 1833.
Burmeister, Handb. d. Ent., ii, pp. 105, 113, 1835.
Burmeister, Genera Ins., i, pl. 15, 1838.
Amyot and Serville, Hémip., p. 583, 1843.
Stål, Of. Vet. Akad. Forh., xix, p. 494, 1862.
Deridna Walker, List Homop., Suppl., p. 319, 1858.
Stål, Of. Vet. Akad. Forh., xix, p. 487, 1862.

2340. **Jassus olitorius** Say

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 310, 1831; Compl. Writ., ii, p. 385.
Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Coelidia.*
Walker, List Homop., iv, p. 1161, 1852, *Coelidia.*
Uhler *in* Heilprin's Bermuda Isds., p. 154, 1889, *Coelidia.*
Van Duzee, Psyche, v, p. 389, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Coelidia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Snow, Kans. Univ. Sci. Bul., ii, p. 350, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 228, 1909.
Van Duzee, Can. Ent., xli, p. 128, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.
♀*subbifasciatus* Say, Jl. Acad. Nat. Sci., Phila., vi, p. 310, 1831; Compl. [Writ., ii, p. 385.
Fitch, Homop. N. Y. St. Cab., p. 58, 1851, *Coelidia.*
Walker, List Homop., iv, p. 1161, 1852, *Coelidia.*
Glover, U. S. Dept. Agr., Rept. for 1876, p. 32, *Coelidia.*
Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 16, 1878.
Van Duzee, Psyche, v, p. 389, 1890 (as female of *olitorius*).
Provancher, Pet. Faune Ent. Can., iii, p. 292, 1890, *Idioecrus.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892, *Coelidia.*

Harrington, Ottawa Nat., vi, p. 31, 1892, *Pediopsis.*
Southwick, Science, xix, p. 288, 1892.
fuscipennis Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 20, 1878.
§*semifasciata* Uhler, Stand. Nat. Hist., ii, p. 245, fig. 311, 1884, *Coelidia.*
Localities: Ont., Me., N. Y., N. J., Pa., N. C., Fla., Mo., Kans Ariz. (Bermudas.)

2341. **Jassus borealis** Spangb.

Spångberg, Of. Vet. Akad. Forh., xxxvi, No. 6, p. 24, pl. 16, fig. 8, 1879.
Locality: "Am. Borealis."

2342. **Jassus melanotus** Spangb.

Spångberg, Of. Vet. Akad. Forh., xxxv, No. 8, p. 19, 1878.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 90, 1916.
Localities: Ga., Tenn.

Genus **Neocoelidia** G. & B.
Orthotype *tumidifrons* G. & B.

Gillette and Baker, Hemip. Colo., p. 103, 1895.
Baker, Can. Ent., xxx, p. 289, 1898.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.
Baker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.

2343. **Neocoelidia tumidifrons** G. & B.

Gillette and Baker, Hemip. Colo., p. 104, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 183, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 91, 1916.
Localities: Me., N. J., Tenn., Fla., Ia., Colo., Texas.

2344. **Neocoelidia candida** Ball

Ball, Ent. News, xx, p. 166, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 55, 1914.
Locality: Colo.

2344½. **Neocoelidia orovila** Ball

Ball, Ent. News, xxvii, p. 206, 1916.
Locality: Calif.

2345. **Neocoelidia lactipennis** (Van D.)

Van Duzee, Ent. Am., vi, p. 49, 1890, *Jassus.*
Locality: Calif.

2345½. **Neocoelidia ramona** Ball

Ball, Ent. News, xxvii, p. 206, 1916.
Locality: Calif.

2346. **Neocoelidia reticulata** Ball

Ball, Ent. News, xx, p. 167, 1909.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Localities: Colo., Utah, Calif.

2347. **Neocoelidia pallida** Bak.
Baker, Can. Ent., xxx, p. 290, 1898.
Localities: Ariz., Calif.

2348. **Neocoelidia lineata** Bak.
Baker, Can. Ent., xxx, p. 289, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Localities: Colo., Calif., Ore.

2349. **Neocoelidia compta** Ball
Ball, Ent. News, xx, p. 167, 1909.
Locality: N. Mex.

2350. **Neocoelidia barretti** Bak.
Baker, Can. Ent., xxx, p. 291, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
pulchella Ball, Ent. News, xx, p. 168, 1909.
Localities: Calif. (Mexico.)

2351. **Neocoelidia tripunctata** Ball
Ball, Ent. News, xx, p. 168, 1909.
Locality: Ariz.

2351½. **Neocoelidia pentagona** Ball
Ball, Ent. News, xxvii, p. 207, 1916.
Locality: Ore.

2352. **Neocoelidia obscura** Bak.
Baker, Can. Ent., xxx, p. 289, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Localities: Texas, Ariz., Calif.

2352½. **Neocoelidia triunata** Ball
Ball, Ent. News, xxvii, p. 207, 1916.
Locality: Utah.

Genus **Paracoelidea** Bak.
Orthotype *tuberculata* Bak.

Baker, Can. Ent., xxx, p. 292, 1898.
Baker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.

2353. **Paracoelidea tuberculata** Bak.
Baker, Can. Ent., xxx, p. 292, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
Localities: Mass., N. Y., Md., D. C., N. C., Fla., Ala.

Genus **Tinobregmus** Van D.
Haplotype *vittatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 213, 1894.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 74, 1907.
Van Duzee, Can. Ent., xli, p. 384, 1909 (type citation).
Barker, Philip. Jl. Sci., x, sec. D, p. 51, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 92, 1916.

2354. **Tinobregmus vittatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 214, 1894.
Baker, Can. Ent., xxx, p. 289, 1898.
Osborn, Ohio Nat., iv, p. 9, 1903.
Van Duzee, Can. Ent., xli, p. 128, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
Localities: Va., N. C., Fla., La., Texas. (Bermudas.)

2354½. **Tinobregmus viridescens** DeL.

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 92, 1916 (spelled *viridiscens*).
Locality: Tenn.

2355. **Tinobregmus pallidus** Osb.

Osborn, Ohio Nat., xi, p. 261, 1910.
Locality: Texas.

DIVISION *CICADULARIA* (Van D.)

Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, *Cicadulini* (Tribe).
Distant, Fauna Brit. Ind., Rhyn., iv, p. 366, 1908.
Van Duzee, Check List Hemip., p. 75, 1916. (Tribe.)
Macrostelini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 342, 1906.

Genus **Cicadula** Zett.
Logotype *sexnotata* Fall.

Zetterstedt, Ins. Lapp., column 296, 1840.
Fieber, Kat. Eur. Cicad., p. 10, 1872.
Fieber, Cicad. d'Eur., i, p. 119, 1875; ii, pl. 12, 1876.
Mayr, Tabellen, p. 31, 1884.
Fieber, Revue d'Ent., iv, p. 40, 1885 (monograph European spp.).
Woodworth, Psyche, v, p. 75, 1888 (names *quadrinotata* Fabr. type, valid?).
Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.
Edwards, Ent. Mo. Mag., xxvii, p. 27, 1891.
Van Duzee, Psyche, vi, p. 305, 1892.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Melichar, Cicad. Mitt. Eur., p. 307, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 180, 1896.
Matsumura, Termes. Fuzet., xxv, p. 361, 1902.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 366, 1908.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.
Macrosteles Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 504, 1866.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 358, 1906.
Thamnus Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866.
Limotettix Sahlberg, Cicad., p. 224, 1871 (part).

2356. **Cicadula punctifrons** (Fall.)

Fallén, Hemip. Suec., Cicad., p. 42, 1826, *Cicada*.
Boheman, Kong. Vet. Akad. Handl. for 1847, p. 33, *Thamnotettix*.
Flor, Rhyn. Livl., ii, p. 328, 1861, *Jassus*.
Kirschbaum, Cicad. v. Wiesbd., p. 88, 1868, *Thamnotettix*.
Sahlberg, Cicad., p. 244, 1871, *Limotettix*.
Fieber, Revue d'Ent., iv, pp. 50, 58, 1885.

Edwards, Ent. Mo. Mag., xxvii, p. 31, 1891.
Van Duzee, Psyche, vi, p. 305, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
Melichar, Cicad. Mitt. Eur., p. 34, pl. 11, figs. 1–4, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 185, pl. 21, fig. 3, 1896.
Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
Van Duzee, Can. Ent., xl, p. 159, 1908.

a. var. **repleta** Fieb.

Fieber, Revue d'Ent., iv, p. 49, 1885.
Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Macrosteles.*
americana Van Duzee, Can. Ent., xxiii, p. 169, 1891.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
Slosson, Ent. News, xiii, p. 321, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 93, 1916.
Localities: N. H., N. Y., Pa., Tenn., Ia., Colo.

2357. **Cicadula laeta** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 360, 1876; iii, p. 473, 1877, *Jassus.*
Van Duzee, Can. Ent., xxiv, p. 268, 1892, *Thamnotettix(?).*
Van Duzee, Psyche, vi, p. 306, 1892, *Thamnotettix.*
Gillette and Baker, Hemip. Colo., p. 98, 1895, *Thamnotettix.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
vanduzei Gillette and Baker, Hemip. Colo., p. 103, 1895, *Eutettix.*
Localities: Colo., Calif.

2358. **Cicadula variata** (Fall.)

Fallén, Acta Holm, xxvii, p. 34, 1806, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 48, 1826, *Cicada.*
Herrich-Schaeffer, Nomen. Ent., i, p. 70, 1835, *Jassus.*
Kirschbaum, Cicad. v. Wiesbd., p. 99, 1868, *Thamnotettix.*
Sahlberg, Cicad., p. 250, 1871, *Limotettix.*
Fieber, Revue d'Ent., iv, p. 51, 1885.
Van Duzee, Psyche, vi, p. 305, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Gillette and Baker, Hemip. Colo., p. 107, 1895.
Slosson, Ent. News, vii, p. 265, 1896.
Melichar, Cicad. Mitt. Eur., p. 312, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 185, pl. 21, fig. 6, 1896.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Can. Ent., xl, p. 159, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 145, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 94, 1916.
fumatus Herrich-Schaeffer, Fauna Germ., fasc. 153, 5, 1838, *Jassus.*
Localities: Quebec, Ont., Me., N. H., Conn., N. Y., N. J., Pa., Ohio, Tenn., Kans., Colo.

2359. **Cicadula lepida** Van D.

Van Duzee, Can. Ent., xxvi, p. 139, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 94, 1916.
Localities: N. Y., Tenn., Kans.

2360. **Cicadula suffusa** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 146, 1915.
Localities: Ont., Me., Ill.

2361. **Cicadula arcuata** G. & B.

Gillette and Baker, Hemip. Colo., p. 105, 1895.
Van Duzee, Can. Ent., xl, p. 159, 1908.
†*lepida*(?) Van Duzee, Can. Ent., xxxviii, p. 411, 1906.
Localities: Quebec, Ont., Mass., Colo., Br. Col.

2362. **Cicadula sexnotata** (Fall.)

Fallén, Acta Holm, xxvii, p. 34, 1906, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 47, 1826, *Cicada.*
Burmeister, Genera Ins., pl. 14, 1838, *Jassus.*
Zetterstedt, Ins. Lapp., column 297, 1840.
Stål, Stet. Ent. Zeit., xix, p. 194, 1858, *Thamnotettix.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 504, 1866, *Macrosteles.*
Kirschbaum, Cicad. v. Wiesbd., p. 95, 1868, *Thamnotettix.*
Sahlberg, Cicad., p. 247, 1871, *Limotettix.*
Fieber, Revue d'Ent., iv, p. 47, 1885.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 76, *Limotettix.*
Woodworth, Psyche, v, p. 75, 1888.
Provancher, Pet. Faune Ent. Can., iii, p. 287, 1890.
Van Duzee, Psyche, vi, p. 305, 1892.
Slosson, Ent. News, v, p. 5, 1894.
Gillette and Baker, Hemip. Colo., p. 107, 1895.
Wirtner, Ann. Caru. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 539, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 73, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Can. Ent., xl, p. 159, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Osborn, U. S. Dept. Agr., Bur. Ent., Bul. 108, p. 97, fig. 27, 1912.
Van Duzee, Can. Ent., xliv, p. 328, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 248, p. 59, 1916.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916.
4-lineata Forbes, Rept. Ill. St. Ent., xiv, p. 68, pl. 5, fig. 4, 1884
Van Duzee, Can. Ent., xxi, p. 9, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.

Davis, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 1, 1893.
Localities: Quebec, Ont., Me., N. H., Mass., Conn., N. Y., N. J., Pa., D. C., N. C., S. C., Ga., Fla., Ala., Miss., Ohio, Tenn., Mich., Ind., Ill., Tenn., N. D., S. D., Ia., Wyo., Mont., Kans., Ark., Okl., Colo., N. Mex., Texas, Ariz., Calif., Wash., Br. Col., Alaska.

2363. **Cicadula pallida** Osb.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 146, 1915.
Locality: Me.

2364. **Cicadula divisa** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 472, 1877, *Jassus.*
Gillette and Baker, Hemip. Colo., p. 106, 1895.
Slosson, Ent. News, xiii, p. 321, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Localities: N. H., Pa., Colo.

2365. **Cicadula fascifrons** (Stål)

Stål, Stet., Ent. Zeit., xix, p. 194, 1858, *Thamnotettix.*
Fieber, Revue d'Ent., iv, pp. 48, 57, 1885.
Edwards, Ent. Mo. Mag., xxvii, p. 31, 1891.
Ashmead, Harriman Alaska Exped., viii, p. 133, 1904.
Matsumura, Termes. Fuzet., xxv, p. 363, 1910.
warioni Lethierry, Soc. d'Hist. Nat. Moselle for 1879.
Fieber, Revue d'Ent., iv, pp. 53, 58, 1885.
Horvath, Termes Fuzet., xiv, p. 366, 1899.
Locality: Alaska.

2366. **Cicadula lineatifrons** (Stål)

Stål, Stet. Ent. Zeit., xix, p. 195, 1858, *Thamnotettix.*
Fieber, Revue d'Ent., iv, pp. 85, 109, 1885, *Thamnotettix.*
Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.
Van Duzee, Can. Ent., xl, p. 159, 1909.
Localities: Quebec, Alaska.

2367. **Cicadula ungae** Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.
Locality: Alaska.

2368. **Cicadula slossoni** Van D.

Van Duzee, Can. Ent., xxv, p. 281, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 200, 1894.
Osborn, 20th Rept. N. Y. St. Ent., p. 540, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 555, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
Localities: Ont., Me., N. H., N. Y., N. C., Br. Col.

2369. **Cicadula potoria** Ball

Ball, Can. Ent., xxxii, p. 346, 1900.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 147, 1915.
Localities: Me., N. Y., Ia.

[**Cicadula macgillivrayi** Baker MS]

Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905.
Locality: N. Y.

Genus **Balclutha** Kirk.
Haplotype *punctatus* Thunb.

Kirkaldy, Entomologist, xxxiii, p. 243, 1900 (n.n. for *Gnathodus* Fieb.).
Distant, Fauna Brit. Ind., Rhyn., iv, p. 268, 1908.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916.
‖*Gnathodus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866 (type *punc-*
Sahlberg, Cicad., pp. 70, 203, 1871. [*tatus* Thunb.).
Fieber, Cicad. d'Eur., i, p. 118, 1875; ii, pl. 12, 1876.
Mayr, Tabellen, p. 31, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 77.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 300, 1892.
Baker, Can. Ent., xxviii, p. 35, 1896 (synopsis of Am. species).
Melichar, Cicad. Mitt. Eur., p. 313, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 190, 1896.
Matsumura, Termes. Fuzet., xxv, p. 356, 1902.

2370. **Balclutha punctata** (Thunb.)

Thunberg, Acta Upsala, iv, p. 21, 1782, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 55, 1826, *Cicada.*
Walker, List Homop., iii, p. 877, 1851, *Jassus.*
Flor, Rhyn. Livl., ii, p. 320, 1861, *Jassus.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 505, 1866, *Gnathodus.*
Kirschbaum, Cicad. v. Wiesbd., p. 90, 1868, *Thamnotettix.*
Sahlberg, Cicad., p. 204, 1871, *Gnathodus.*
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 77, *Gnathodus.*
Provancher, Pet. Faune Ent. Can., iii, p. 301, 1890, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Gnathodus.*
Baker, Can. Ent., xxviii, p. 41, 1896, *Gnathodus.*
Melichar, Cicad. Mitt. Eur., p. 314, pl. 12, figs. 5–8, 1896, *Gnathodus.*
Edwards, Hemip. Homop. Brit. Isds., p. 191, pl. 21, fig. 10, 1896, *Gnathodus.*
Matsumura, Termes. Fuzet., xxv, p. 358, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904, *Gnathodus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus.*
Distant, Fauna Brit. Ind., Rhyn., iv, p. 368, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 248, p. 79, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.
clypeata Curtis, Brit. Ent., xiv, pl. 640, 1837, *Eupteryx.*
spreta Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula.*
[*Typhlocyba vernalis* Fitch MS] in collections.
rosea Provancher, Nat. Can., iv, p. 378, 1872, *Typhlocyba.*
jacosa Provancher, Pet. Faune Ent. Can., iii, p. 300, 1890, *Typhlocyba.*
Localities: Quebec, Ont., Me., N. H., N. Y., N. J., Pa., D. C., N. C., Tenn., Mich., Mo., Colo., Br. Col.

2371. **Balclutha osborni** Van D.

Van Duzee, Check List Hemip., p. 75, 1916 (n.n. for *viridis* Osb.)
‖*viridis* Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus.*

Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Gnathodus.*
Van Duzee, Can. Ent., xxxviii, p. 411, 1906.
Moore, Can. Ent., xxxix, p. 190, 1907.
Localities: Quebec, Ont., N. Y.

2372. **Balclutha confusa** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 104, 1895, *Gnathodus.*
Baker, Can. Ent., xxviii, p. 40, 1896, *Gnathodus.*
Localities: Colo., Texas.

2373. **Balclutha impicta** (Van D.)

Van Duzee, Can. Ent., xxiv, p. 113, 1892, *Gnathodus.*
Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus.*
Wirtner, Ann. Carn. Mus., iii, p. 225, 1904, *Gnathodus.*
Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905, *Gnathodus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.

a. var. **flavus** (Bak.)

Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus.*

b. var. **medius** (Bak.)

Baker, Can. Ent., xxviii, p. 38, 1896, *Gnathodus.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 96, 1916.
Localities: Ont., Me., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Ohio, Tenn., Ill., Mo., Kans., Calif., Wash.

2374. **Balclutha occidentalis** (Bak.)

Baker, Can. Ent., xxviii, p. 41, 1896, *Gnathodus.*
Locality: Wash.

2375. **Balclutha manitou** (G. & B.)

Gillette and Baker, Hemip. Colo., p. 105, 1895, *Gnathodus.*
Baker, Can. Ent., xxviii, p. 39, 1896, *Gnathodus.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus.*
Locality: Colo.

2376. **Balclutha livingstoni** (Bak.)

Baker, Can. Ent., xxviii, p. 42, 1896, *Gnathodus.*
Locality: Vanc. Isd.

Genus **Eugnathodus** Bak.
Orthotype *abdominalis* (Van D.)

Baker, Invert. Pacifica, i, p. 1, 1903.

2377. **Eugnathodus abdominalis** (Van D.)

Van Duzee, Can. Ent., xxiv, p. 113, 1892, *Gnathodus.*
Gillette and Baker, Hemip. Colo., p. 104, 1895, *Gnathodus.*
Baker, Can. Ent., xxviii, p. 36, 1896, *Gnathodus.*

Baker, Invert. Pacifica, i, p. 2, 1903.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Gnathodus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 106, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 27, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 95, 1916, *Balclutha.*

a. var. **magnus** Bak.
Baker, Invert. Pacifica, i, p. 2, 1903.
Localities: N. Y., N. J., Fla., Ohio, Tenn., Kans., Texas, Ill., Colo., Calif., Br. Col. (the var. from Nicaragua).

2378. **Eugnathodus nevadensis** Bak.

Baker, Invert. Pacifica, i, p. 1, 1903.
Locality: Nev.

TRIBE *TYPHLOCYBINI* (Kirschb.)

Kirschbaum, Cicad. v. Wiesbd., p. 16, 1868, Subfam. *Typhlocybidae.*
Sahlberg, Cicad., p. 69, 1871, Tribe *Typhlocybides.*
Fieber, Kat. Europ. Cicad., p. 14, 1872, *Typhlocybae.*
Fieber, Cicad. d'Europ., i, p. 118, 1875, *Typhlocybae.*
Fieber, Revue d'Ent., iii, p. 40, 1884 (monograph European species).
Puton, Cat. Hemip. Palae., p. 86, 1886, Tribe *Typhlocybini.*
Woodworth, Psyche, v, p. 211, 1889, Group *Typhlocybini.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 298, 1892, Subfam. *Typhlocybina.*
Melichar, Cicad. Mitt. Europ., p. 132, 1896, Subfam. *Typhlocybini.*
Oshanin, Verz. Palae. Hemip., ii, p. 187, 1907, Subfam. *Typhlocybina.*
Distant, Fauna Br. Ind., Rhyn., iv, p. 399, 1908, Subfam. *Typhlocybinae.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, Subfam. *Typhlocybinae.*
Oshanin, Kat. Palae. Hemip., p. 111, 1912, Subfam. *Typhlocybinae.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 149, 1915. [(Subfamily.)
Eupteryginae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 1, p. 356, 1906.

DIVISION *EMPOASCARIA* Dist.

Distant, Fauna Br. Ind., Rhyn., iv, p. 399, 1908.

Genus **Protalebra** Bak.
Orthotype *curvilinea* Gill.

Baker, Psyche, viii, p. 402, 1899.

2379. **Protalebra brasiliensis** Bak.

Baker, Psyche, viii, p. 405, 1899.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Locality: Fla.

Genus **Alebra** Fieb.
Logotype *albostriella* (Fall.)

Fieber, Kat. Europ. Cicad., p. 14, 1872 (n.n. for *Compsus* Fieb.).
Fieber, Cicad. d'Europ., i, p. 125, 1875; ii, pl. 13, 1876.

Fieber, Revue d'Ent., iii, p. 40, 1884.
Mayr, Tabellen, p. 36, 1884.
Woodworth, Psyche, v, p. 213, 1889.
Melichar, Cicad. Mitt. Europ., p. 316, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 192, pl. 2, fig. 18, 1896.
Gillette, Proc. U. S. Natl. Mus., xx, p. 710, 1898.
Baker, Psyche, viii, p. 402, 1899.
†*Typhlocyba* Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
‖*Compsus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 507, 1866.
Sahlberg, Cicad., p. 155, 1871.

2380. **Alebra albostriella** (Fall.)

Fallén, Hemip. Suec., Cicad., p. 54, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 382, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 177, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 156, 1871, *Compsus.*
Fieber, Revue d'Ent., iii, p. 40, 1884.
Melichar, Cicad. Mitt. Europ., p. 316, pl. 12, figs. 9, 10, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 193, pl. 22, fig. 1, 1896.
Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898.
Horvath, Ann. Mus. Natl. Hung., i, p. 556, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 541, 1905.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 97, 1916.
elegantula Zetterstedt, Fauna Lapp., i, p. 536, 1828, *Cicada.*
Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula.*
pallidula Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba.*
§*pallida* Woodworth, Psyche, v, p. 213, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 309, 1894.
Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898.
Oshanin, Verz. Palae. Hemip., ii, p. 187, 1907.

a. var. **fulveola** (H. S.)

Herrich-Schaeffer, Fauna Germ., cxiv, No. 16, 1839, *Typhlocyba.*
Flor, Rhyn. Livl, ii, p. 384, 1860, *Typhlocyba.*
Sahlberg, Cicad., p. 158, 1871, *Compsus.*
Fieber, Revue d'Ent., iii, p. 41, 1884.
Melichar, Cicad. Mitt. Europ., p. 317, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 193, pl. 22, fig. 2, 1896.
Gillette, Proc. U. S. Natl. Mus., xx, p. 714, 1898.
flavocephala Kupka, Ent. Nachr., xxv, p. 33, 1899.
aurea Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
Gillette, Proc. U. S. Natl. Mus., xx, p. 713, 1898 (*aurata*).
Oshanin, Kat. Palae., Hemip., p. 111, 1912 (*aureata*).
Localities: Ont., Mass., N. Y., Pa., Va., N. C., Ohio, Tenn., Mich., Ill.

2381. **Alebra binotata** (Walsh)

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864, *Typhlocyba.*
[May not be distinct from preceding.]
Locality: Ill.

2382. **Alebra fumida** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 714, 1898.
Locality: N. Y.

Genus **Dikraneura** Hardy
Haplotype *variata* Hardy

Hardy, Trans. Tyneside Nat. Field Club, i, p. 423, 1850.
Puton, Cat. Hémip. Palae., edn. 3, p. 86, 1886, *Dicraneura.*
Woodworth, Psyche, v, p. 213, 1889, *Dicraneura.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 311, 1894, *Dicraneura.*
Melichar, Cicad. Mitt. Europ., p. 320, 1896, *Dicraneura.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 715, 1898, *Dicraneura.*
Kirkaldy, Entomol., xxxiv, p. 6, 1901.
Chloroneura Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
‖*Notus* Fieber, Verh. Zool.-Bot. Ges. Wien., xvi, p. 508, 1866.
Sahlberg, Cicad., p. 162, 1871.
‡*Dicranoneura* Douglas, Ent. Mo. Mag., xii, p. 27, 1875.

2383. **Dikraneura maculata** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 716, 1898.
Localities:

2384. **Dikraneura cruentata** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 717, 1898.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 150, 1915.
Localities: Me., N. Y., Colo., Vanc. Isds.

2385. **Dikraneura unipuncta** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 718, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Locality: Calif.

2386. **Dikraneura mali** (Prov.)
Provancher, Pet. Faune Ent. Can., iii, p. 298, 1890, *Erythroneura.*
Van Duzee, Can. Ent., xliv, p. 329, 1912.
communis Gillette, Proc. U. S. Natl. Mus., xx, p. 718, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 150, 1915.
Localities: Quebec, Me., N. Y., Ohio, Mich., Ill., Colo.

2387. **Dikraneura abnormis** (Walsh)
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864, *Chloroneura.*
Woodworth, Psyche, v, p. 213, 1889.
Gillette, Proc. U. S. Natl. Mus., xx, p. 719, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 98, 1916.

a. var. **rufula** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 720, 1898.
Localities: Conn., Pa., D. C., N. C., Ga., Ill., Tenn., Mo., Kans., Texas.

2387½. **Dikraneura flavipennis** (Zett.)
Zetterstedt, Fauna Lapp., p. 292, 1828, *Cicada.*
Zetterstedt, Ins. Lapp., column 292, 1840, *Cicada.*
Flor, Rhyn. Livl., ii, p. 388, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 180, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 163, 1871, *Notus.*
Fieber, Revue d'Ent., iii, p. 51, 1884, *Notus.*
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 81.
Melichar, Cicad. Mitt. Eur., p. 323, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 195, pl. 22, fig. 4, 1896.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 232, 1897.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
orichalcea Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 183, *Cicadula.*
armata Buckton, Monog. Brit. Cicad., ii, p. 107, pl. 63, fig. 3, 1891.
Localities: N. Y., Ia. (Europe.)

2388. **Dikraneura cockerellii** Gill.
Gillette, Psyche, vii, Suppl., 1, p. 14, 1895.
Cockerell, N. Mex. Agr. Exp. Sta., Bul. 19, p. 114, 1896
Gillette, Proc. U. S. Natl. Mus., xx, p. 720, 1898.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914
Localities: N. Mex., Calif.

2389. **Dikraneura kunzei** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 721, 1898.
Locality: Ariz.

2390. **Dikraneura sanguinea** (G. & B.)
Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba.*
Locality: Colo.

2391. **Dikraneura tricolor** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Locality: Calif.

2392. **Dikraneura carneola** (Stål)
Stål, Stet. Ent. Zeit., xix, p. 196, 1858, *Typhlocyba.*
Fieber, Kat. Europ. Cicad., p 14, 1872, *Notus.*
Fieber, Revue d'Ent., iii, p. 43, 1884, *Erythria.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 722, 1898.
Ashmead, Harriman Alaska Exped., viii, p. 134, 1904.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
?Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 151, 1915.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
§*carinata* Woodworth, Psyche, v, p. 213, 1889.
Van Duzee, Trans. Am. Ent. Soc., xxi, p. 311, 1894.
Localities: Me.(?), Ariz., Calif., Wash., Vanc. Isd., Alaska.

2393. **Dikraneura fieberi** (Loew)
Loew *in* Then, Kat. Ostr. Cicad., p. 39, 1886, *Notus.*
Melichar, Cicad. Mitt. Eur., p. 325, 1896.
Gillette, Proc. U. S. Natl. Mus., xx, p. 722, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.

Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 151, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 98, 1916.
†*forcipatus* Fieber, Revue d'Ent., iii, p. 53, 1884, *Notus.*
Localities: Me., Mass., N. Y., N. J., Pa., D. C., N. C., Ohio, Tenn., Ill., Ia., Kans. (Palaearctic.)

Genus **Empoasca** Walsh
Logotype *viridescens* Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
Woodworth, Psyche, v, p. 213, 1889.
Van Duzee, Trans. Am. Ent. Soc., xix, p. 309, 1894.
Gillette, Proc. U. S. Natl. Mus., xx, p. 724, 1898.
Distant, Fauna Br. Ind., Rhyn., iv, p. 401, 1908 (names *viridescens* type).
‖*Chloria* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866.
Kybos Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866.
Fieber, Revue d'Ent., iii, p. 65, 1884.
†*Cicadula* Sahlberg, Cicad., p. 158, 1871.
Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908.
Chlorita Fieber, Kat. Europ. Cicad., p. 14, 1872 (n.n. for *Chloria* Fieb.).
Cybus Douglas, Ent. Mo. Mag., xii, p. 26, 1875 (emendation of *Kybos*).

2394. **Empoasca trifasciata** Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 726, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 99, 1916.
Localities: N. Y., Ohio, Tenn., Ill., Ia., Kan.

2395. **Empoasca smaragdula** (Fall.)

Fallén, Acta Holm. for 1806, p. 37, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 53, 1826, *Cicada.*
Zetterstedt, Ins. Lapp., column 298, 1840, *Cicadula.*
Flor, Rhyn. Livl., ii, p. 393, 1861, *Typhlocyba.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 508, 1866, *Kybos.*
Kirschbaum, Cicad. v. Wiesbd., p. 178, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 159, 1871, *Cicadula.*
Fieber, Revue d'Ent., iii, p. 66, 1884, *Kybos.*
Van Duzee, Psyche, v, p. 241, 1889, *Kybos.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Kybos.*
Gillette and Baker, Hemip. Colo., p. 110, 1895.
Melichar, Cicad. Mitt. Europ., p. 327, pl. 12, figs. 22–25, 1896, *Kybos.*
Edwards, Hemip. Homop. Brit. Isds., p. 197, pl. 22, fig. 8, 1896, *Kybos.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 725, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.
viridipes Curtis, Brit. Ent., xiv, pl. 640, 1837, *Eupteryx.*
Localities: Ont., Me., N. Y., Pa., Mo., Colo., Calif. (Palaearctic.)

2396. **Empoasca aureoviridis** (Uhl.)

Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 474, 1877, *Typhlocyba.*
Woodworth, Psyche, v, p. 213, 1889.
Gillette, Proc. U. S. Natl. Mus., xx, p. 730, 1898.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.
Localities: Tenn., Colo.

2397. **Empoasca unicolor** Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 731, 1898.
Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 159, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.
Localities: Quebec, Ont., Me., N. H., N. Y., D. C., Fla., Ohio, Mich., Colo.

2398. **Empoasca obtusa** Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.
Gillette and Baker, Hemip. Colo., p. 109, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 733, 1898.
Slosson, Ent. News, xiii, p. 321, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Can. Ent., xl, p. 159, 1908.
Webster, Ent. News, xxi, p. 265, 1910 (habits).
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 153, 1915.
Leonard, Ent. News, xxvii, p. 49, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.
Localities: Quebec, Me., N. H., N. Y., N. J., Pa., D. C., Ohio, Tenn., Ill., Ia., Kans., Colo.

2399. **Empoasca maligna** (Walsh)

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Chloroneura.*
Woodworth, Psyche, v, p. 213, 1889.
Localities: Ill.

2400. **Empoasca unica** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 340, 1890, *Typhlocyba.*
Van Duzee, Can. Ent., xliv, p. 329, 1912.
splendida Gillette, Proc. U. S. Natl. Mus., xx, p. 731, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 100, 1916.
Localities: Quebec, Ont., N. Y., Pa., Md., N. C., Tenn., Brit. Col.

2401. **Empoasca atrolabes** Gill.

Gillette, Proc. U. S. Natl. Mus., xx, p. 736, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 542, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.
Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 159, 1908.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 152, 1915.
Localities: Quebec, Ont., Me., N. Y., Mich., Colo.

2402. **Empoasca albolinea** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 732, 1898.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Localities: Va., Ill., Kan.

2403. **Empoasca denticula** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 734, 1898.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.
Localities: Colo., Tenn.

2404. **Empoasca pergandei** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 735,. 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Localities: Mass., Pa.

2405. **Empoasca incisa** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 735, 1898.
Localities: Colo.

2406. **Empoasca coccinea** (Fitch)
Fitch, Homop. N. Y. St. Cab., p. 63, 1851, *Empoa.*
Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba.*
Localities: N. Y., Pa.

2407. **Empoasca clypeata** G. & B.
Gillette and Baker, Hemip. Colo., p. 108, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 727, 1898.
Localities: Colo.

2408. **Empoasca livingstoni** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 728, 1898.
Localities: Wash., Van. Isd.

2409. **Empoasca nigra** G. & B.
Gillette and Baker, Hemip. Colo., p. 108, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 728, 1898.
Localities: Colo.

2410. **Empoasca pulchella** G. & B.
Gillette and Baker, Hemip. Colo., p. 109, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 729, 1898.
Localities: Colo.

2411. **Empoasca pura** (Stål)
Stål, Stet. Ent. Zeit., xix, p. 195, 1858, *Typhlocyba.*
Fieber, Revue d'Ent., iii, p. 58, 1884, *Chlorita.*
Woodworth, Psyche, v, p. 213, 1889.
Gillette and Baker, Hemip. Colo., p. 110, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 734, 1898.
Ashmead, Harriman Alaska Exped., viii, p. 135, 1904, *Chloroneura.*
Localities: Vanc. Isd., Alaska.

2412. **Empoasca radiata** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 738, 1898.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.
Localities: Colo., Tenn., Mo.

2413. **Empoasca robusta** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 739, 1898.
Locality: Calif.

2414. **Empoasca nigroscuta** G. & B.
Gillette and Baker, Hemip. Colo., p. 108, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 739, 1898.

a. var. **typhlocyboides** G. & B.
Gillette and Baker, Hemip. Colo., p. 110, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 740, 1898.
Localities: Colo., Utah.

2415. **Empoasca pallida** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 741, 1898.
Locality: N. C.

2416. **Empoasca snowi** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 741, 1898.
Locality: N. Mex.

2417. **Empoasca aspersa** G. & B.
Gillette and Baker, Hemip. Colo., p. 107, 1895.
Horvath, Ann. Mus. Natl. Hung., vi, p. 566, 1908, *Cicadula*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
†*tessellata* Gillette, Proc. U. S. Natl. Mus., xx, p. 742, 1898.
Localities: Colo., Utah, Calif.

2418. **Empoasca alboneura** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 743, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 101, 1916.
Localities: N. Y., D. C., Va., Miss., Tenn., Neb., Kan., Colo., Calif.

2419. **Empoasca alboscripta** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Locality: Calif.

2420. **Empoasca tumida** Gill.
Gillette, Proc. U. S. Natl. Mus., xx, p. 744, 1898.
Locality: Colo.

2421. **Empoasca mali** (LeB.)
LeBaron, Prairie Farmer, xiii, p. 330, 1853, *Tettigonia*.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 126, 1892.
Gillette, Proc. U. S. Natl. Mus., xx, p. 744, 1898.
Wirtner, Ann. Carn. Mus., iii, p. 226, 1904.
Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.
Van Duzee, Can. Ent., xxxviii, p. 411, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Webster, Ent. News, xxi, p. 266, 1910 (habits).
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910.

Osborn, U. S. Dept. Agr., Bur. Ent., Bul. 108, p. 100, fig. 28, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915.
Essig, Inj. Benef. Ins. Calif., edn. 2, p. 62, 1915.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 153, 1915.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
Gibson, Can. Ent., xlviii, p. 178, 1916.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 102, 1916.
albopicta Forbes, 13th Rept. Ill. St. Ent., p. 181, pl. 14, 1884, *Empoa.*
Woodworth, Psyche, v, p. 213, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894.
Localities: Ont., Me., N. Y., N. J., Pa., D. C., Va., N. C., S. C., Fla., Miss., Ohio, Ky., Tenn., Mich., Ind., Ill., Mo., Kans., Calif. (West Indies.)

2422. **Empoasca flavescens** (Fabr.)

Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 53, 1826, *Cicada.*
Flor, Rhyn. Livl., ii, p. 394, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 178, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 161, 1871, *Cicadula.*
Fieber, Revue d'Ent., iii, p. 57, 1884, *Chlorita.*
Melichar, Cicad. Mitt. Eur., p. 326, 1896, *Chlorita.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 745, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 76, 1907.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 405, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 102, 1916.
Localities: N. Y., D. C., Miss., Fla., Mich., Tenn., Ill., Ia., Kans., Colo., N. Mex., Calif. (West Indies, Palaearctic.)

2423. **Empoasca viridescens** Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.
Gillette and Baker, Hemip. Colo., p. 111, 1895.
Gillette, Proc. U. S. Natl. Mus., xx, p. 347, 1898.
Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 56, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915.
consobrina Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.
Localities: N. Y., N. C., Ga., Fla., Miss., Ill., Kans., Colo., Ariz., Calif.

2424. **Empoasca birdii** Godg.

Goding, Ent. News, i, p. 123, 1890.
Gillette, Proc. U. S. Natl. Mus., xx, p. 746, 1898 (as var. of *flavescens*).
Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905.
Localities: N. Y., Mich., Ill., Ia.

2425. **Empoasca malefica** (Walsh)

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Chloroneura*
Locality: Ill.

DIVISION *TYPHLOCYBARIA* Dist.

Distant, Fauna Br. Ind., Rhyn., iv, p. 408, 1908.

Genus **Typhlocyba** Germ.
Logotype *aurata* (Linn.)

Germar, Silb. Revue Ent., i, p. 180, 1833.
Burmeister, Handb. d. Ent., ii, p. 107, 1835.
Blanchard, Hist. des Ins., Hémip., p. 199, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840 (names *ulmi* Linn.
Burmeister, Genera Ins., i, pl. 13, 1841. [pseudotype).
Spinola, Tavola Sinot., p. 59, 1850.
Flor, Rhyn. Livl., ii, p. 369, 1861.
Kirschbaum, Cicad. v. Wiesbd., pp. 16, 176, 1868.
Fieber, Kat. Europ. Cicad., p. 14, 1872.
Fieber, Revue d'Ent., iii, p. 92, 1884.
Eupteryx Curtis, Ent. Mag., i, p. 192, 1833 (orthotype *picta* Fabr.).
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.
Marshall, Ent. Mo. Mag., iii, p. 197, 1867.
Sahlberg, Cicad., p. 189, 1871.
Douglas, Ent. Mo. Mag., xi, p. 198, 1875.
Lethierry, Revue d'Ent., iii, p. 92, note, 1884.
Puton, Cat. Hemip. Palae., edn. 3, p. 87, 1886.
Woodworth, Psyche, v, p. 213, 1889.
Melichar, Cicad. Mitt. Europ., p. 328, 1896.
Gillette, Proc. U. S. Natl. Mus., xx, p. 748, 1898.
Distant, Fauna Brit. Ind., Rhyn., iv, p. 416, 1908 (names *atropunctata*
Oshanin, Verz. Palae. Hemip., ii, p. 198, 1908. [Goeze type).
Oshanin, Kat. Palae. Hemip., p. 112, 1912.

2426. **Typhlocyba collina** Flor

Flor, Rhyn. Livl., ii, p. 433, 1861.
Kirschbaum, Cicad. v. Wiesbd., p. 196, 1868.
Fieber, Revue d'Ent., iii, p. 109, 1884, (as var. of *melissae* Curt.).
Melichar, Cicad. Mitt. Europ., p. 340, 1896, *Eupteryx*.
Edwards, Hemip. Homop. Brit. Isds., p. 204, pl. 23, fig. 4, 1896, *Eupteryx*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 511, 1912, *Eupteryx*.
quinquemaculata Baker, Invert. Pacifica, i, p. 8, 1903, *Eupteryx*.
Localities: N. Y., Calif.

2427. **Typhlocyba vanduzei** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 748, 1898, *Eupteryx*.
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Eupteryx*.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Eupteryx*.
Localities: N. Y., Pa.

2428. **Typhlocyba nigra** (Osb.)

Osborn, 20th Rept. N. Y. St. Ent., p. 543, 1905, *Eupteryx*.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 155, 1915, *Eupteryx*.
Localities: Me., N. Y., Ohio.

2429. **Typhlocyba flavoscuta** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 749, 1898, *Eupteryx.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Eupteryx.*
Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Eupteryx.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Eupteryx.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Eupteryx.*
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Eupteryx.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 535, 1914.

Localities: Quebec, N. H., N. Y., N. J., Pa., Fla.

Genus **Empoa** Fitch

Logotype *querci* Fitch

Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
Anomia Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.
Fieber, Revue d'Ent., iii, p. 120, 1884.
†*Typhlocyba* Sahlberg, Cicad., p. 172, 1871 (part).
Douglas, Ent., Mo. Mag., xi, p. 198, 1875 (names *lineatella* Fall. pseudo-
Lethierry, Revue d'Ent., iii, p. 120, note, 1884. [type).
Puton, Cat. Hemip. Palae., edn. 3, p. 88, 1886 (part).
Woodworth, Psyche, v, p. 213, 1889 (part).
Van Duzee, Trans. Am. Ent. Soc., xix, p. 311, 1894 (part).
Melichar, Cicad. Mitt. Eur., p. 341, 1896 (part).
Gillette, Proc. U. S. Natl. Mus., xx, p. 750, 1898 (part).
Distant, Fauna Brit. Ind., Rhyn., iv, p. 409, 1908 (names *quercus* Fitch
Oshanin, Verz. Palae. Hemip., ii, p. 208, 1908. [type.
Oshanin, Kat. Palae. Hemip., p. 113, 1912.

2430. **Empoa querci** Fitch

Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 202, 1894, *Typhlocyba.*
Slosson, Ent. News, vii, p. 265, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 766, 1898, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba.*
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 157, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba.*

Localities: Ont., Me., N. H., N. Y., Ohio, Tenn.

a. var. **gillettei** n.n.

‖*bifasciata* Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba.*
Slosson, Ent. News, vii, p. 265, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 766, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba.*
Van Duzee, Can. Ent., xl, p. 160, 1908, *Typhlocyba.*
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba.*

b. var. **6-notata** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
Locality: Calif.

c. var. **morgani** (DeL.)
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 104, 1916, *Typhlocyba.*
Localities: Tenn., Ohio.

2430½. **Empoa nitidula** (Fabr.)
Fabricius, Ent. Syst., iv, p. 46, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 79, 1803, *Cicada.*
Flor, Rhyn. Livl., ii, p. 407, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 185, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 177, 1871, *Typhlocyba.*
Fieber, Revue d'Ent., iii, p. 123, 1884, *Anomia.*
Edwards, Hemip. Homop. Brit. Isds., p. 219, pl. 25, fig. 5, 1896, *Typhlocyba.*
Oshanin, Verz. Palae. Hemip., ii, p. 209, 1906, *Typhlocyba.*
Slosson, Ent. News, xvii, p. 326, 1906, *Typhlocyba.*
bifasciata Boheman, Of. Vet. Akad. Forh., ix, p. 79, 1852, *Typhlocyba.*
Localities: N. H. (Europe.)

2430¾. **Empoa aureotecta** S. & D.
Sanders and DeLong, Ann. Ent. Soc. Am., x, p. 93, 1917 (figures).
Locality: Wis.

2431. **Empoa australis** (Walsh)
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864, *Erythroneura.*
Woodworth, Psyche, v, p. 214, 1889.
Locality: Ill.

2432. **Empoa flavomarginata** (G. & B.)
Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 768, 1898, *Typhlocyba.*
Locality: Colo.

2433. **Empoa ulmi** (Linn.)
Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Cicada.*
Linnaeus, Fauna Suec., edn. 2, No. 900, 1761, *Cicada.*
Linnaeus, Syst. Nat., edn. 12, ii, p. 711, 1767, *Cicada.*
Fabricius, Ent. Syst., iv, p. 45, 1794, *Cicada.*
Fabricius, Syst. Rhyng., p. 78, 1803, *Cicada.*
Fallén, Hemip. Suec., Cicad., p. 49, 1826, *Cicada.*
Burmeister, Handb. d'Ent., ii, p. 107, 1835, *Typhlocyba.*
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840, *Typhlocyba.*
Flor, Rhyn. Livl., ii, p. 411, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 186, 1868, *Typhlocyba.*
Sahlberg, Cicad., p. 176, 1871, *Typhlocyba.*
Fieber, Revue d'Ent., iii, p. 127, 1884, *Anomia.*
Melichar, Cicad. Mitt. Europ., p. 348, pl. 12, figs. 31, 32, 1896, *Typhlocyba.*
Edwards, Hemip. Homop. Brit. Isds., p. 213, pl. 24, fig. 8, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 769, 1898, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905.
Localities: Mass., R. I., N. Y., Ia.

2434. **Empoa commissuralis** (Stål)

Stål, Stet. Ent. Zeit., xix, p. 196, 1858, *Typhlocyba.*
Fieber, Revue d'Ent., iii, p. 67, 1884, *Kybos.*
Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 769, 1898, *Typhlocyba.*
Ashmead, Harriman Alaska Exped., viii, p. 135, 1904, *Empoasca.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 249, 1916.
Localities: Me., Colo., Calif., Vanc. Isd., Alaska.

2435. **Empoa tenerrima** (H. S.)

Herrich-Schaeffer, Fauna Germ., cxxiv, No. 10a; clxiv, No. 16, 1834, *Typhlo-*
Kirschbaum, Cicad. v. Wiesbd., p. 185, 1868, *Typhlocyba.* [*cyba.*
Sahlberg, Cicad., p. 178, 1871, *Typhlocyba.*
Melichar, Cicad. Mitt. Europ., p. 349, 1896, *Typhlocyba.*
Edwards, Hemip. Homop. Brit. Isds., p. 214, pl. 24, fig. 9, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 770, 1898, *Typhlocyba.*
Slosson, Ent. News, ix, p. 251, 1898, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba.*
rubi Hardy, Trans. Tyneside Nat. Field Club, i, p. 417, 1850, *Typhlocyba.*
misella Boheman, Kong. Vet. Akad. Handl. for 1851, p. 122, *Typhlocyba.*
Localities: Quebec, Ont., Me., N. H., N. Y., Mich., Colo.

2436. **Empoa lethierryi** (Edwds.)

Edwards, Ent. Mo. Mag., xvii, p. 224, 1881, *Typhlocyba.*
Melichar, Cicad. Mitt. Europ., p. 346, 1896, *Typhlocyba.*
Edwards, Hemip. Homop. Brit. Isds., p. 216, pl. 30, fig. 8, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 771, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba.*
Osborn, Me., Agr. Exp. Sta., Bul. 238, p. 157, 1915, *Typhlocyba.*
†*rosae* Kirschbaum, Cicad. v. Wiesbd., p. 184, 1868, *Typhlocyba.*
‖*sulphurella* Lethierry, Cat. Hemip., Dept. Nord., pp. 74, 79, *Anomia.*
Fieber, Revue d'Ent., iii, p. 124, 1884, *Anomia.*
Localities: Me., N. Y., Pa., Mich., Ia.

2437. **Empoa rosae** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 439, 1758, *Cicada.*
Linnaeus, Fauna Suec., edn. 2, No. 902, 1761, *Cicada.*
Geoffroy, Hist. Abreg. des Ins., i, p. 428, 1762, *Cicada* (*Tettigonia*).
Linnaeus, Syst. Nat., edn. 12, ii, p. 712, 1767, *Cicada.*
Fabricius, Syst. Ent., p. 687, 1775, *Cicada.*
Fabricius, Ent. Syst., iv, p. 45, 1794, *Cicada.*
Walckenaer, Fauna Paris., ii, p. 328, 1802, *Cicada.*
Burmeister, Handb. d. Ent., ii, p. 107, 1835, *Typhlocyba.*
Zetterstedt, Ins. Lapp., column 300, 1840, *Cicadula.*
Burmeister, Genera Ins., i, pl. 13, 1841, *Typhlocyba.*
Flor, Rhyn. Livl., ii, p. 407, 1861, *Typhlocyba.*
Kirschbaum, Cicad. v. Wiesbd., p. 184, 1868, *Typhlocyba.*

Sahlberg, Cicad., p. 180, 1871, *Typhlocyba.*
Fieber, Revue d'Ent., iii, p. 124, 1884, *Anomia.*
Provancher, Pet. Faune Ent. Can., iii, p. 299, 1890.
Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba.*
Melichar, Cicad. Mitt. Europ., p. 345, 1896, *Typhlocyba.*
Edwards, Hemip. Homop., Brit. Isds., p. 216, 1896, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 771, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 228, 1904, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905, *Typhlocyba.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba.*
Webster, Ent. News, xxi, p. 267, 1910, *Typhlocyba* (habits).
Smith, Cat. Ins. N. J., edn. 3, p. 107, *Typhlocyba.*
Van Duzee, Can. Ent., xliv, p. 329, 1912, *Typhlocyba.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 158, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba.*
‖*rosae* Harris, Rept. Ins. Mass., edn. 2, p. 182, 1852, *Tettigonia* (as new).
Harris, Treat. Ins. Injur. Veg., edn. 3, p. 229, 1862, *Tettigonia.*
Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 202, 1894, *Typhlocyba.*
Van Duzee, Trans. Am. Ent. Soc., xix, p. 313, 1894, *Typhlocyba.*
pteridis Dahlbom, Kongl. Vet. Akad. Handl. for 1850, p. 179, *Typhlocyba.*
†*lactea* Douglas, Ent. Mo. Mag., xii, p. 77, 1875, *Typhlocyba.*
Localities: Quebec, Ont., Me., Vt., Mass., N. Y., Pa., D. C., Ohio, Tenn., Mich., Kans., Ia., Colo., Calif., Vanc. Isd.

2438. **Empoa fabae** (Harr.)

Harris, Rept. Ins. Mass., p. 186, 1841, *Tettigonia.*
Harris, Treat. Ins. Injur. Veg., edn. 3, p. 230, 1862, *Tettigonia.*
Fitch, Homop. N. Y. St. Cab., p. 63, 1851, *Erythroneura.*
Woodworth, Psyche, v, p. 213, 1889, *Empoasca.*
Localities: Mass., N. Y., Ohio.

2439. **Empoa albicans** Walsh

Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 316, 1864.
Woodworth, Psyche, v, p. 214, 1879, *Typhlocyba.*
Locality: Ill.

Genus **Erythroneura** Fitch
Logotype *tricincta* Fitch

Fitch, Homop. N. Y. St. Cab., p. 62, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 315, 1864.
Provancher, Pet. Faune Ent. Can., iii, p. 297, 1890 (in part).
Oshanin, Kat. Palae. Hemip., p. 114, 1912 (names *tricincta* type).
Zygina Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.
Fieber, Cicad. d. Europ., i, p. 129, 1875; ii, p. 13, 1876.
Fieber, Revue d'Ent., iii, p. 150, 1884 (synop. of species).
Mayr, Tabellen, p. 40, 1884.
Melichar, Cicad. Mitt. Europ., p. 351, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 219, 1896.
Oshanin, Verz. Palae. Hemip., ii, p. 216, 1908.
Idia Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 509, 1866.

2440. **Erythroneura trifasciata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 343, 1825; Compl. Writ., ii, p. 259, *Tetti-*
Signoret, Ann. Soc. Ent. Fr., ser. 3, iii, p. 805, 1855, *Tettigonia.* [*gonia.*
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 755, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba.*
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 106, 1916, *Typhlocyba.*
Localities: N. Y., N. J., Pa., Tenn., Miss., Ill., Mo., Ia., Kan.

2441. **Erythroneura tricincta** Fitch

Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, pp. 392, 436, 1856.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 753, 1898, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba.*
Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 753, 1898, *Typhlocyba.*
Slosson, Ent. News, xiii, p. 321, 1902, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 544, 1905, *Typhlocyba.*
Tucker, Univ. Kans. Sci. Bul., iv, p. 69, 1907, *Typhlocyba.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 104, 1916, *Typhlocyba.*
Localities: Ont., N. H., N. Y., Pa., Md., N. C., Ohio, Tenn., Ill., Mo., Ia., Kan., Colo.

2442. **Erythroneura tunicarubra** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 752, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 106, 1916, *Typhlocyba.*
Localities: Pa., Mich., Tenn.

2443. **Erythroneura hartii** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 754, 1898, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba.*
Localities: Pa., Ill.

2444. **Erythroneura rubroscuta** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 755, 1898, *Typhlocyba.*
Localities: Ill., Kan.

2444½. **Erythroneura osborni** (DeL.)

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 103, 1916, *Typhlocyba.*
Locality: Tenn.

2445. **Erythroneura comes** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 343, 1825; Compl. Writ., ii, p. 259,
Cooke, Inj. Ins. Orchard and Vineyard, p. 197, 1883. [*Tettigonia.*

Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba.*
Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 759, 1898, *Typhlocyba.*
Slingerland, Cornell Univ. Agr. Exp. Sta., Bul. 215, 1904, *Typhlocyba.*
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba.*
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Typhlocyba.*
Smith, Cat. Ins. N. J., edn. 3, p. 107, 1910, *Typhlocyba.*
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba.*
Essig, Inj. Benef. Ins. Calif., edn. 2, p. 64, 1915.
DeLong, Tenn. St. Bd. Ent., Bul. 106, 1916, *Typhlocyba.*

a. var. **vitifex** Fitch
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba.*
Provancher, Pet, Faune Ent. Can., iii, p. 299, 1890, *Typhlocyba.*
Townsend, Can. Ent., xxiv, p. 196, 1892, *Typhlocyba.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba.*
Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba.*
Van Duzee, Can. Ent., xliv, p. 329, 1912.

b. var. **ziczac** Walsh
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
Woodworth, Psyche, v, p. 214, 1889, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 761, 1898, *Typhlocyba.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba.*

c. var. **vitis** (Harr.)
Harris, Encyc. Am., viii, p. 43, 1831, *Tettigonia.*
Harris, Rept. Ins. Mass., p. 184, 1841, *Tettigonia.*
Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 391, 1856.
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 227, 1862, *Tettigonia.*
Saunders, Ins. Inj. to Fruits, p. 286, fig. 297, 1883.
Uhler, Stand. Nat. Hist., ii, p. 246, 1884.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba.*
Provancher, Pet. Faune Ent. Can., iii, p. 298, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba.*
Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba.*
Gillette, Proc. U. S. Natl. Mus., xx, p. 761, 1898, *Typhlocyba.*
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba.*
Van Duzee, Can Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba.*
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba.*

d. var. **basilaris** (Say)
Say, Jl. Acad. Nat. Sci. Phila., iv, p. 344, 1825; Compl. Writ., ii, p. 260,
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864. [*Tettigonia.*

Gillette, Proc. U. S. Natl. Mus., xx, p. 760, 1898, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.
affinis Fitch, Homop. N. Y. St. Cab., p. 63, 1851.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.

e. var. **infuscata** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

f. var. **rubra** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

g. var. **maculata** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.

h. var. **scutelleris** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

i. var. **octo-notata** Walsh
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 318, 1864.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
Gillette, Proc. U. S. Natl. Mus., xx, p. 762, 1898, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 107, 1916, *Typhlocyba*.

j. var. **coloradensis** (Gill.)
Gillette, Colo. Agr. Exp. Sta., Bul. 19, p. 16, 1892, *Typhlocyba*.
Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
Gillette, Proc. U. S. Natl. Mus., xx, p. 763, 1898, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.

k. var. **apicalis** (DeL.)
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 108, 1916, *Typhlocyba*.
Localities: Quebec, Ont., Me., Mass., N. Y., N. J., Pa., Md., D. C., N. C., Fla., Miss., Ohio, Tenn., Mich., Ill., Mo., Neb., Kans., Colo., N. Mex., Texas, Ariz., Calif., Br. Col.

2446. **Erythroneura illinoiensis** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 758, 1898, *Typhlocyba*.
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 28, 1915, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 109, 1916, *Typhlocyba*.
Localities: N. C., Miss., Tenn., Mich., Ill., Mo.

2447. **Eurythroneura obliqua** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 342, 1825; Compl. Writ., ii, p. 259,
Fitch, Homop. N. Y. St. Cab., p. 63, 1851. [*Tettigonia*.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 435, 1856.
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
Provancher, Pet. Faune Ent. Can., iii, p. 340, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
Gillette and Baker, Hemip. Colo., p. 112, 1895, *Typhlocyba*.
Gillette, Proc. U. S. Natl. Mus., xx, p. 756, 1898, *Typhlocyba*.
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 77, 1915, *Typhlocyba*.
Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 155, 1915, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

a. var. **dorsalis** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 757, 1898, *Typhlocyba*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

b. var. **noevus** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 757, 1898, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 68, 1907, *Typhlocyba*.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

c. var. **fumida** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 758, 1898, *Typhlocyba*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 57, 1914.
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.

d. var. **clavata** (DeL.)
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 105, 1916, *Typhlocyba*.
Localities: Quebec, Ont., Me., N. Y., Pa., D. C., Ohio, Tenn., Mich., Ill., Mo., Kans., Ia., Colo., Calif.

2447½. **Erythroneura nigridorsum** (DeL.)

DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 110, 1916, *Typhlocyba*.
Locality: Tenn.

2448. **Erythroneura vulnerata** Fitch

Fitch, Homop. N. Y. St. Cab., p. 62, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 392, 1856.
Walsh, Proc. Bost. Soc. Nat. Hist., ix, p. 317, 1864.
Woodworth, Psyche, v, p. 213, 1889, *Typhlocyba*.
Provancher, Pet. Faune Ent. Can., iii, p. 299, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892, *Typhlocyba*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 201, 1894, *Typhlocyba*.
Gillette and Baker, Hemip. Colo., p. 113, 1895, *Typhlocyba*.
Gillette, Proc. U. S. Natl. Mus., xx, p. 764, 1898, *Typhlocyba*.
Wirtner, Ann. Carn. Mus., iii, p. 227, 1904, *Typhlocyba*.
Osborn, 20th Rept. N. Y. St. Ent., p. 545, 1905, *Typhlocyba*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 69, 1907, *Typhlocyba*.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Gibson and Cogan, Ohio Jl. Sci., xvi, p. 78, 1915, *Typhlocyba*.

Osborn, Me. Agr. Exp. Sta., Bul. 238, p. 156, 1915, *Typhlocyba.*
DeLong, Tenn. St. Bd. Ent., Bul. 17, p. 110, 1916, *Typhlocyba.*

a. var. **nigra** (Gill.)
Gillette, Proc. U. S. Natl. Mus., xx, p. 765, 1898, *Typhlocyba.*
Localities: Quebec, Ont., Me., N. Y., N. J., Pa., D. C., Miss., Tenn., Mo., Ia., Kans., Colo., Ariz.

2449. **Erythroneura dentata** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 765, 1898, *Typhlocyba.*
Locality: Calif.

2450. **Erythroneura crevecoeuri** (Gill.)

Gillette, Proc. U. S. Natl. Mus., xx, p. 767, 1898, *Typhlocyba.*
Localities: N. Y., N. C., Ohio, Kans.

2451. **Erythroneura rubricata** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 229, 1909, *Typhlocyba.*
Locality: Fla.

Family FULGORIDAE (Latr.)

Latreille, Genera Crust Ins., iii, p. 163, 1807, *Fulgorellae.*
Leach *in* Brewster's Edinbg. Encyc., ix, p. 124, 1915, *Fulgorida.*
Germar, Mag. d. Ent., iii, p. 179, 1818, *Fulgorellae.*
Latreille, Fam. Nat. Règne Animal, p. 427, 1825, *Fulgorellae.*
Fallén, Hemip. Suec., Cicad., p. 68, 1826, *Fulgorides.*
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 215, 1829, *Fulgorelles.*
Burmeister, Handb. d. Ent., ii, pp. 102, 144, 1835, *Fulgorina.*
Latreille *in* Cuvier's Animal Kingd., Lond. edn., iv, p. 174, 1836, *Fulgorellae.*
Spinola, Ann. Soc. Ent. Fr., viii, pp. 133, 202, 1839, *Fulgorellae.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 427; Synop., p. 115, 1840.
Blanchard, Hist. des Ins., Hémip., p. 167, 1840, *Fulgoriens.*
Spinola, Tavola Sinot., pp. 27, 50, 1850, *Fulgoritae.*
Walker, List Homop., ii, p. 261, 1851, *Fulgorina.*
Stål, Stet. Ent. Zeit., xix, p. 233, 1858, *Fulgorina.*
Flor, Rhyn. Livl., ii, p. 11, 1861, *Fulgorina.*
Stål, Hemip. Afr., iv, p. 128, 1866, *Fulgorida.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 497, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 9, 1868, *Fulgorina.*
Sahlberg, Cicad., pp. 73, 376, 1871, *Fulgorina.*
Fieber, Kat. Eur. Cicad., p. 2, 1872, *Fulgorida.*
Fieber, Cicad. d'Eur., i, p. 41, 1875, *Fulgorida.*
Berg, Hemip. Argent., p. 213, 1879.
Distant, Biol. Centr. Am., Homop., i, p. 21, 1883.
Uhler, Stand. Nat. Hist., ii, p. 229, 1884.
Ashmead, Ent. Am., v, pp. 1, 21, 1889. (Keys.)
Provancher, Pet. Faune Ent. Can., iii, p. 215, 1889.
Hansen, Ent. Tidskr., xi, p. 65, 1890 (Kirkaldy transl. Entomol., xxxiii, pp. 169, 336, 1900; xxiv, p. 150, 1901; xxxv, p. 235, 1902; xxxvi, p. 93, 1903 (morphology).
Osborn, Proc. Ent. Soc. Wash., iii, p. 187, 1895.

Melichar, Cicad. Mitt. Eur., pp. 1, 17, 1896.
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, 1904 (catalogue).
Oshanin, Verz. Palae. Hemip., ii, p. 224, 1906.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 175, 1906
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1907 (synopses).
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 9, 91, 96, [1907, *Fulgoroidea.* (Superfamily.)
Horvath, Ann. Mus. Natl. Hung., ix, p. 30, 1911.
Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Fulgoroideae.* (Superfamily.)
Subtericornes Amyot and Serville, Hémip., pp. liv, 483, 1843.

Subfamily **FULGORINAE** (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 202, 206, 1839, *Fulgoridea.*
Amyot and Serville, Hémip., pp. lv, 488, 1843, *Fulgorides.* (Groupe.)
Walker, List Homop., ii, p. 262, 1851, *Fulgoroides.*
Stål, Hemip. Afr., iv, pp. 129, 131, 1866, *Fulgorida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 740, 1870, *Fulgorina.*
Berg, Hemip. Argent., p. 213, 1879, *Fulgorina.*
Distant, Biol. Centr. Am., Homop., i, p. 22, 1883.
Uhler, Stand. Nat. Hist., ii, p. 229, 1884, *Fulgorida.*
Ashmead, Ent. Am., v, p. 2, 1889.
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 175, 178, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1907, *Fulgorida.*
Oshanin, Verz. Palae. Hemip., ii, p. 224, 1908, *Fulgorina.*
Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Fulgoridae.* (Family.)
Lystroides Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 240, 1839.
Walker, List Homop., ii, p. 273, 1851.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913, *Lystrinae.*
Eufulgoridae Haglund, Of. Vet. Akad. Forh., lvi, No. 2, p. 59, 1899.

Genus **Scolopsella** Ball
Orthotype *reticulata* Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.
Melichar, Abh. Zool.-Bot. Ges. Wien, vii, p. 171, 1912.

2452. **Scolopsella reticulata** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1907.
Melichar, Abh. Zool.-Bot. Ges. Wien, vii, p. 171, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.
Localities: Ariz., Calif.

Genus **Amycle** Stål
Logotype *amabilis* (Westw.)

Stål, Stet. Ent. Zeit., xxii, p. 148, 1861.
Stål, Berl. Ent. Zeit., vi, p. 305, 1862 (subgen. of *Cyrpoptus* Stål).
Stål, Hemip. Afr., iv, p. 136, 1866.
Stål, Stet. Ent. Zeit., xxxi, p. 291, 1870.
Distant, Biol. Centr. Am., Homop., i, p. 25, 1887.

2453. **Amycle vernalis** Manee

Manee, Ent. News, xxi, p. 117, 1910.
Locality: Ga.

2454. **Amycle saxatilis** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 33, 1914.
Locality: Calif.

Genus **Calyptoproctus** Spin.
Orthotype *elegans* Lep. & Serv.

Duponchel, Revue Zool., ii, p. 201, 1839 (nomen nudum; names *lystroides*
Spinola, Ann. Soc. Ent. Fr., viii, p. 266, 1839. [Spin. pseudotype).
Amyot and Serville, Hémip., p. 501, 1843.
Stål, Hemip. Afr., iv, p. 137, 1866.
Stål, Stet. Ent. Zeit., xxxi, p. 293, 1870.
Distant, Biol. Centr. Am., Homop., i, p. 36, 1887.
Ashmead, Ent. Am., v, p. 22, 1889. [pseudotype).
Distant, Ann. Mag. Nat. Hist., ser. 7, xviii, p. 195, 1906 (names *stigma*
Paralystra White, Ann. Zool. Bot., xviii, p. 25, 1846 (type *emma* Wht.).

2455. **Calyptoproctus marmoratus** Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 271, 1839.
Amyot and Serville, Hémip., p. 501, 1843.
Locality: "N. Am."

Genus **Cyrpoptus** Stål
Haplotype *suavis* Stål

Stål, Berl. Ent. Zeit., vi, p. 304, 1862.
Stål, Stet. Ent. Zeit., xxxi, p. 292, 1870.
Distant, Biol. Centr. Am., Homop., i, p. 35, 1887.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913.

2456. **Cyrpoptus belfragei** Stål

Stål, Berl. Ent. Zeit., xiii, p. 240, 1869.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: N. C., Fla., Ohio, Mo., Texas.

2457. **Cyrpoptus reineckei** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914.
Locality: Fla.

2458. **Cyrpoptus nubeculosus** Stål

Stål, Berl. Ent. Zeit., xiii, p. 240, 1869.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 185, 1909.
Localities: Texas. (Mexico.)

Genus **Poblicia** Stål
Orthotype *misella* (Stål)

Stål, Hemip. Afr., iv, p. 138, 1866 (nomen nudum).
Stål, Berl. Ent. Zeit., x, p. 390, 1867 (valid here).

Stål, Stet. Ent. Zeit., xxxi, p. 290, 1870.
Distant, Biol. Centr. Am., Homop., i, p. 31, 1887.

2459. **Poblicia misella** (Stål)

Stål, Stet. Ent. Zeit., xxiv, p. 239, 1863; xxv, p. 49, 1864, *Poeocera.*
Uhler, Stand. Nat. Hist., ii, p. 230, 1884, *Pococera.*
Distant, Biol. Centr. Am., Homop., i, p. 31, pl. 5, fig. 6, 1887.
Localities: Ariz. (Mexico.)

2460. **Poblicia fuliginosa** (Oliv.)

Olivier, Encyc. Meth., vi, p. 574, 1791, *Fulgora.*
Uhler, Stand. Nat. Hist., ii, p. 230, 1884, *Pococera.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: N. C., Ga., Ohio, Mo., Texas, Ariz.

2461. **Poblicia thanatophana** Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 61, 1907.
Locality: Ariz.

Subfamily DICTYOPHORINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 283, 1839, *Dyctiophoroides.*
Walker, List Homop., ii, p. 303, 1851, *Dyctiophoroides* (part).
Stål, Hemip. Afr., iv, p. 129, 1866, *Dictyopharida.*
Berg, Hemip. Argent., p. 217, 1879, *Dictyopharina.*
Distant, Biol. Centr. Am., Homop., i, p. 38, 1887.
Melichar, Homop. Fauna Ceyl., p. 17, 1903.
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 236, 1906. [*tyopharini.*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, p. 10, 1907, *Dic-*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Dictyopharida.*
Matsumura, Trans. Sapp. Nat. Hist. Soc., iii, p. 100, 1910. [(Key.)
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 1, 1912.
Pseudophanides Amyot and Serville, Hémip., pp. lvi, 502, 1843 (part).
†*Fulgorinae* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, pp. 11, 12, 1913.

TRIBE *DICTYOPHORINI* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, pp. 6, 28, 191, 1912.

Genus **Dictyophora** Germ.
Logotype *europaea* Linn.

Germar, Silb. Revue Ent., i, p. 175, 1833.
Duponchel, Revue Zool., ii, p. 202, 1839 (names *proboscidea* Spin. pseudotype).
Spinola, Ann. Soc. Ent. Fr., viii, p. 290, 1839.
Kirschbaum, Cicad. v. Wiesbd., pp. 12, 50, 1868.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 114, 1912.
Pseudophana Burmeister, Handb. d. Ent., ii, p. 159, 1835.
Amyot and Serville, Hémip., p. 506, 1843.
Chianthus Kolenati, Bul. Soc. Imp. Mosc., xxx, p. 427, 1857.
‡*Dictyophara* Stål, Hemip. Afr., iv, p. 154, 1866.
Fieber, Cicad. d'Eur., i, p. 70, 1875; ii, p. 209, 1876.
Berg, Hemip. Argent., p. 217, 1879.
Distant, Biol. Centr. Am., Homop., i, p. 39, 1887.
Ashmead, Ent. Am., v, p. 21, 1889.

Melichar, Cicad. Mitt. Eur., pp. 18, 33, 1896. [as type).
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 237, 241, 1906 .(gives *europaea*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1908.
Van Duzee, Can. Ent., xlvi, p. 387, 1914.
Van Duzee, Check List Hemip., p. 78, 1916.
Avephora Bierman, Notes Leyden Mus., xxxiii, p. 12, 1911.
Tropidophora Bierman, Notes Leyden Mus., xxxiii, p. 15, 1911.
†*Fulgora* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul. 12, p. 11, 1913 (names [*europaea* pseudotype).

2462. **Dictyophora microrhina** Walk.

Walker, List Homop., ii, p. 315, 1851.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 71, 1912, *Nersia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Nersia.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: N. Y., N. J., N. C., Fla., La., Kans.

2463. **Dictyophora lingula** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 470, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 186, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 71, 1912, *Nersia.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 526, 1914, *Nersia.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: N. J., N. C., Fla.

2464. **Dictyophora florens** (Stål)

Stål, Rio Jan. Hemip., ii, p. 64, 1861, *Nersia.*
Distant, Biol. Centr. Am., Homop., i, p. 41, pl. 6, fig. 8, 1887.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 470, 1908.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 72, 1912, *Nersia.*
nigromarginata Signoret, Ann. Soc. Ent. Fr., ser. 4, ii, p. 586, 1862.
Localities: Kans. (Neotropical.)

2465. **Dictyophora dioxys** (Walk.)

Walker, List Homop., Suppl., p. 61, 1858, *Nersia.*
Kirkaldy, Can. Ent., xli, p. 391, 1909.
curviceps Stål, Rio Jan. Hemip., ii, p. 64, 1861, *Nersia.*
Distant, Biol. Centr. Am., Homop., i, p. 40, pl. 6, fig. 4, 1887.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 74, 1912, *Nersia.*
Localities: Md., Miss. (Neotropical.)

Genus **Scolops** Schaum
Type *sulcipes* (Say)

Schaum, Ersch and Grube, Encyc., li, Article Fulgoridae, 1850.
Stål, Hemip. Afr., iv, p. 151, 1866.
Ashmead, Ent. Am., v, p. 21, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.
Uhler, Trans. Md. Acad. Sci., i, p. 401, 1900.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1908.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 162, 1912 (monograph).
Ornithissus Fowler, Biol. Centr. Am., Homop., i, p. 121, 1904. [236, 1906.
Melichar, Monog. Issiden, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p.

Subgenus **Scolops** Schaum

Van Duzee, Check List Hemip., p. 78, 1916.

2466. **Scolops sulcipes** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 335, 1825; Compl. Writ., ii, p. 254, *Ful-*
Uhler, Hayden's Surv. Terr. for 1870, p. 471, 1872. [*gora.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 349, 1876; iii, p. 458, 1877; iv, p.
Uhler, Wheeler's Rept. Chief Eng. for 1877, p. 1333. [510, 1878.
Uhler, Stand. Nat. Hist., ii, p. 230, fig. 305, 1884.
Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 189, 1894.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Uhler, Trans. Md. Acad. Sci., i, p. 402, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
?pungens Germar, Thon's Ent. Archiv., ii, p. 47, 1830, *Flata.*
Walker, List Homop., ii, p. 309, 1851, *Dictyophora.*
Burmeister, Handb. d. Ent., ii, p. 160, 1835, *Pseudophana.*
Westwood, Trans. Linn. Soc. Lond., xviii, p. 150, 1837, *Flata.*
Uhler, Trans. Md. Acad. Sci., i, p. 408, 1900.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.
Localities: Quebec, Ont., Me., R. I., Conn., N. Y., N. J., Pa., Md., Va., N. C., Fla., Ohio, Ill., Ia., Manitoba, Minn., Dak., Neb., Kans., Colo., Utah, N. Mex., Texas, Ariz., Ore., Wash.

2467. **Scolops osborni** Ball

Ball, Can. Ent., xxxiv, p. 147, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 166, 1912.
Localities: Ia., Kans.

2468. **Scolops spurcus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 403, 1900.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 168, 1912.
Localities: N. J., Md., D. C., Mo., Kans.

2469. **Scolops desiccatus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 407, 1900.
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 186, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
Localities: N. J., D. C., N. C., Fla., Ohio, Ind., Texas.

2470. **Scolops perdix** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 405, 1900.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
Localities: Mass., N. Y., N. J., Md., D. C., N. C., Colo., Ariz.

2471. **Scolops uhleri** Ball

Ball, Can. Ent., xxxiv, p. 148, 1902.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 169, 1912.
Localities: Colo., Utah, Ariz.

2472. **Scolops pallidus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 404, 1900.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 167, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.
Localities: Colo.(?), Utah(?), Calif.

2473. **Scolops cockerelli** (Fowl.)

Fowler, Biol. Centr. Am., Homop., i, p. 122, pl. 12, fig. 14, 1904, *Ornithissus.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 236, 1906, *Ornithissus.*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 62, 1907.
Localities: Ariz. (Mexico.)

2474. **Scolops vanduzei** Ball

Ball, Can. Ent., xxxiv, p. 150, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 169, 1912.
Locality: Neb.

2475. **Scolops maculosus** Ball

Ball, Can. Ent., xxxiv, p. 148, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 166, 1912.
Locality: Colo.

2476. **Scolops viridis** Ball

Ball, Can. Ent., xxxiv, p. 149, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 170, 1912.
Locality: Colo.

2477. **Scolops angustatus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 350, 1876.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Uhler, Trans. Md. Acad. Sci., i, p. 406, 1900.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 164, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
Localities: Mass., Conn., N. Y., N. J., Md., D. C., N. C., Ga., Fla., Ohio, Ind., Ia., Dak., Neb., Minn., Colo.

2478. **Scolops robustus** Ball

Ball, Can. Ent., xxxiv, p. 150, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 168, 1912.
Locality: Colo.

2479. **Scolops abnormis** Ball

Ball, Can. Ent., xxxiv, p. 149, 1902.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 164, 1912.
Locality: Calif.

2480. **Scolops hesperius** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 349, 1876.
Uhler, Trans. Md. Acad. Sci., i, p. 404, 1900.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.
Localities: Texas, Colo., Idaho, Calif.

2481. **Scolops grossus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 350, 1876.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1896.
Uhler, Trans. Md. Acad. Sci., i, p. 408, 1900.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 94, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 165, 1912.
Localities: N. J., Kans., Colo., Idaho, Texas, Calif.

Subgenus **Belonocharis** Uhl.
Haplotype *fumida* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 145, 1891 (as genus).
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 161, 1912 (as genus).
Van Duzee, Check List Hemip., p. 78, 1916.

2482. **Scolops fumidus** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 146, 1891.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 161, 1912.
Locality: Calif.

2483. **Scolops piceus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.
Locality: Calif.

Genus **Phylloscelis** Germ.
Logotype *atra* Germ.

Germar, Zeit. f. Ent., i, p. 191, 1839.
Stål, Hemip. Afr., iv, p. 151, 1866.
Uhler, Stand. Nat. Hist., ii, p. 231, 1884.
Osborn, Ohio Nat., iv, p. 93, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 100, 178, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1907.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 172, 1912 (names *atra* type).

2484. **Phylloscelis atra** Germ.

Germar, Zeit. f. Ent., i, p. 192, 1839.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
Uhler, Stand. Nat. Hist., ii, p. 231, 1884.
Osborn, Ohio Nat., iv, pp. 93, 100, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 179, 1906.

Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 472, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 173, 1912.
Slingerland and Crosby, Manual Fruit Ins., p. 472, figs. 392, 393, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.

a. var. **albovenosa** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 179, fig. 39, 1906; vii, [p. 174, 1912.
Localities: Miss., N. Y., N. J., Pa., Md., D. C., Va., N. C., Ga., Fla., Ohio, Ill., Kans., Mo., Ark., Okla., Texas.

2485. **Phylloscelis pallescens** Germ.

Germar, Zeit f. Ent., i, p. 192, 1839.
Uhler, Stand. Nat. Hist., ii, p. 231, 1884.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 178, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 471, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 173, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 10, 1915.
Localities: Mass., N. Y., N. J., Pa., N. C., Fla., Ia., Ark., Texas.

TRIBE *ORGERIINI* (Oshan.)

Oshanin, Ann. Mus. Zool., Acad. Imp. Sci. St. Petersb., xii, p. 472, 1908, *Orgeriaria.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 179, 1912, *Orgerini.*
Oshanin, Revue Russe d'Ent., xiii, p. 3, 1913. (Key to palaearctic genera.)
Oshanin, Faune de la Russie, Hémip., iii, pt. 1, p. 8, 1913.

Genus **Orgerius** Stål
Haplotype *rhyparus* Stål

Stål, Freg. Eugen. Resa, Ins., p. 273, 1859.
Stål, Hemip. Afr., iv, p. 152, 1866.
Fieber, Cicad. d'Eur., i, p. 74, 1875.
Ashmead, Ent. Am., v, p. 6, 1889.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 469, 1908.
Oshanin, Ann. Mus. Zool. Acad. Imp. Sci. St. Petersb., xii, p. 473, 1908.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 197, 1912.
Horvath, Ann. Mus. Natl. Hung., xi, p. 452, 1913.
Nymphorgerius Oshanin, Revue Russe d'Ent., xiii, p. 3, 1913.
Oshanin, Faune de la Russie, Hémip., iii, pp. 12, 48, 1913.
(Genus *Ranissus* Fieb. now considered distinct.)

2486. **Orgerius rhyparus** Stål

Stål, Freg. Eugen. Resa, Ins., p. 274, 1859.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 199, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Locality: Calif.

2487. **Orgerius minor** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 208, 1912.
†*rhyparus* Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 472, 1908.
Localities: Colo., Calif.

2488. **Orgerius erectus** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 209, 1912.
Locality: Calif.

2489. **Orgerius compressus** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 202, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 209, 1912.
Locality: Utah.

Genus **Orgamara** Ball
Orthotype *acuta* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.

2490. **Orgamara acuta** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.
Localities: Calif. (Mexico.)

2491. **Orgamara reducta** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 198, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 193, 1912.
Locality: Calif.

2492. **Orgamara obesa** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 199, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.
Locality: Utah.

2493. **Orgamara bipunctata** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 199, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.
Locality: Utah.

2494. **Orgamara obscura** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 200, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.
Locality: Idaho.

2495. **Orgamara albida** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 200, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 194, 1912.
Locality: Calif.

Genus **Timodema** Ball
Orthotype *miracula* Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 201, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 195, 1912.

2496. **Timodema miracula** Ball

Ball, Proc. Biol. Soc. Wash., xxii, p. 201, 1909.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 195, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 34, 1914.
Locality: Calif.

Genus **Ticida** Uhl.
Haplotype *cingulata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 143, 1891.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 234, 1906.
Van Duzee, Can. Ent., xlvi, p. 387, 1914.
Loxophora Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 469, 472, 1908.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 210, 1912.

2497. **Ticida cingulata** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 144, 1891. [1912.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 234, 1906; vii, p. 196,
transversa Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 473, 1908.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 210, 1912.
Localities: Colo., Utah.

Subfamily ACHILINAE (Stål)

Stål, Hemip. Afr., iv, p. 130, 1866, *Achilida*.
Stål, Of. Vet. Akad. Forh., xxvii, p. 784, 1870, *Achilina*.
Ashmead, Ent. Am., v, p. 23, 1889, *Achilini*. (Tribe.)
Fowler, Biol. Centr. Am., Homop., i, p. 103, 1904, *Achilina*.
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 286, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906, *Achilidae*.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 10, 95, 115, 1907, *Achilini*.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Achilida*. [(Tribe.)
Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911, *Achilidae*.

Genus **Elidiptera** Spin.
Logotype *callosa* Spin.

Duponchel, Revue Zool., ii, p. 202, 1839 (nomen nudum; names *callosa* Spin.
Spinola, Ann. Soc. Ent. Fr., viii, p. 304, 1839. [type).
Spinola, Tavola Sinot., p. 52, 1850.
Van Duzee, Can. Ent., xlii, p. 262, 1910 (list of species).
Van Duzee, Check List Hemip., p. 79, 1916 (type written *collaris* by error).
‡*Helicoptera* Amyot and Serville, Hémip., p. 526, 1843.
Stål, Hemip. Afr., iv, pp. 182, 184, 1866.
Sahlberg, Cicad., p. 387, 1871.
Fieber, Cicad. d'Eur., i, p. 64, 1875; ii, p. 159, 1876.
Uhler, Stand. Nat. Hist., ii, p. 239, 1884.
Ashmead, Ent. Am., v, p. 23, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 219, 1889.
Fowler, Biol. Centr. Am., Homop., i, pp. 103, 106, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 475, 1908. (Key.)
Oshanin, Kat. Palae. Hemip., p. 120, 1912 (names *cincticeps* pseudo- [type).

2498. **Elidiptera colorata** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 476, 1908.
Van Duzee, Can. Ent., xlii, p. 262, 1910.
Locality: N. Y.

2499. **Elidiptera opaca** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 239, 1830; Compl. Writ., ii, p. 374, *Flata.*
Uhler, Stand. Nat. Hist., ii, p. 239, 1884, *Helicoptera.*
Van Duzee, Psyche, v, p. 389, 1890, *Helicoptera.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894, *Helicoptera.*
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Helicoptera.*
Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 476, 1908, *Helicoptera.*
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Van Duzee, Can. Ent., xlii, p. 262, 1910; xliv, p. 325, 1912.
vestita Provancher, Pet. Faune Ent. Can., iii, p. 221, 1889, *Helicoptera.*
pinorum Manee, Ent. News, xxi, p. 117, 1910, *Helicoptera.*
Localities: Ont., N. H., N. Y., N. J., Pa., Md., N. C., Ga., Ind.

2500. **Elidiptera pallida** (Say)

Say, Jl. Acad. Nat. Sci. Phila, vi, p. 240, 1830; Compl. Writ., ii, p. 374, *Flata.*
Van Duzee, Psyche, v, p. 389, 1890, *Helicoptera.*
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Helicoptera.*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 477, 1908, *Helicoptera.*
Van Duzee, Can. Ent., xlii, p. 262, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Localities: N. H., N. Y., N. J., Pa., D. C., Fla.

2501. **Elidiptera henshawi** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 83, 1910.
Localities: Calif., Wash.

2502. **Elidiptera slossoni** Van D.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 478, 1908, *Helicoptera.*
Locality: N. H.

2502½. **Elidiptera woodworthi** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 245, 1916.
Locality: Calif.

2503. **Elidiptera septentrionalis** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 220, 1889, *Helicoptera.*
Slosson, Ent. News, vi, p. 5, 1895, *Helicoptera.*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 478, 1908, *Helicoptera.*
Van Duzee, Can. Ent., xlii, p. 262, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Localities: Quebec, N. H., N. J.

2504. **Elidiptera floridae** (Walk.)

Walker, List Homop., ii, p. 326, 1851, *Monopsis.*
Gillette and Baker, Hemip. Colo., p. 69, 1895, *Helicoptera.*
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 83, 1910, *Helicoptera* (with doubt).

Van Duzee, Can. Ent., xlii, p. 262, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Localities: R. I., N. J., Fla., Colo.(?).

2505. **Elidiptera variegata** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 479, 1908, *Helicoptera*.
Van Duzee, Can. Ent., xlii, p. 263, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Localities: Ont., N. H., N. J., N. C.

2506. **Elidiptera fusiformis** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 82, 1910.
Locality: Calif.

Genus **Catonia** Uhl.
Logotype *nava* Say

Uhler, Proc. Zool. Soc. Lond. for 1895, p. 61.
Van Duzee, Proc. Acad. Sci. Phila., lix, p. 480, 1908. (Key.)
Van Duzee, Can. Ent., xlii, pp. 261, 263, 1910. (Key and list.)
Van Duzee, Check List Hemip., p. 79, 1916 (gives *nava* as type).

2507. **Catonia nava** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 238, 1830; Compl. Writ., ii, p. 373, *Flata*.
Walker, List Homop., ii, p. 469, 1851 (*Poeciloptera noeva*).
Van Duzee, Psyche, v, p. 389, 1890, *Phypia*.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 62.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Localities: Ont., N. Y., Md., Ohio, Ind., Ia.

2508. **Catonia cinctifrons** (Fitch)

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 451, 1856, *Cixius*.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 62.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., N. J., Pa., Md., N. C.

2509. **Catonia bicinctura** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 119, 1915.
Locality: Fla.

2510. **Catonia picta** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. J., N. C., Ga., Fla.

2511. **Catonia grisea** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482, 1908.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Localities: Ont., N. Y.

2511½. **Catonia nemoralis** Van D.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 246, 1916.
Locality: Calif.

2512. **Catonia pumila** Van D.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 483, 1908.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Localities: N. Y., Ohio.

2513. **Catonia maculifrons** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 491, 1912.
Locality: Ariz.

2514. **Catonia impunctata** (Fitch)
Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius.*
Van Duzee, Psyche, v, p. 390, 1890, *Myndus.*
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897, *Myndus.*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482, 1908.
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 85, 1910.
Van Duzee, Can. Ent., xlii, pp. 261, 263, 1910.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: R. I., N. Y., N. J., Pa., N. C., Ia.

2515. **Catonia dimidata** Van D.
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 85, 1910.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
†*impunctata* var. *a*, Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius.*
†*impunctata* female, Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 482, [1908.
Localities: R. I., N. Y.

2516. **Catonia irrorata** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 35, 1914.
Locality: Calif.

2517. **Catonia fusca** Van D.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 481, 1908.
Van Duzee, Can. Ent., xlii, p. 261, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.
Locality: Calif.

2518. **Catonia nervata** Van D.
Van Duzee, Can. Ent., xlii, pp. 262, 265, 1910.
Locality: Calif.

2519. **Catonia rubella** Van D.
Van Duzee, Can. Ent., xlii, pp. 262, 264, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.
Locality: Calif.

2520. **Catonia costata** Van D.
Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 86, 1910.
Van Duzee, Can. Ent., xlii, p. 262, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.
Locality: Calif.

2521. **Catonia cara** Van D.

Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 86, 1910.
Van Duzee, Can. Ent., xlii, p. 262, 1910.
Locality: Calif.

2521½. **Catonia succinea** Van D.

Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 247, 1916.
Locality: Calif.

2522. **Catonia majuscula** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 492, 1912.
Locality: Ariz.

2523. **Catonia producta** Van D.

Van Duzee, Pomona Jl. Ent. Zool., vii, p. 120, 1915.
Locality: Calif.

Subfamily CIXIINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 202, 311, 1839, *Cixioides.*
Spinola, Tavola Sinot., p. 52, 1850, *Cixioideae* (part).
Walker, List Homop., ii, p. 335, 1851, *Cixioides* (part).
Stål, Hemip. Afr., iv, p. 129, 1866, *Cixiida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 746, 1870, *Cixiina.*
Sahlberg, Cicad., pp. 73, 377, 1871, *Cixiides.*
Berg, Hemip. Argent., p. 219, 1879, *Cixiina.*
Uhler, Stand. Nat. Hist., ii, p. 240, 1884, *Cixiida.*
Ashmead, Ent. Am., v, p. 2, 1889.
Melichar, Homop. Fauna Ceylon, p. 30, 1903, *Cixiidae.*
Fowler, Biol. Centr. Am., Homop., i, p. 80, 1904, *Cixiidae.*
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 176, 255, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 10, 95, 106, 1907, *Cixiini.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907. (Tribe.)
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 484, 1908, *Cixiida.* (Key.)
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Oshanin, Kat. Palae. Hemip., p. 114, 1912, *Cixiidae.* (Family.)

Genus **Bothriocera** Burm.
Haplotype *tinealis* Burm.

Burmeister, Handb. d. Ent., ii, p. 146, 156, 1835.
Stål, Hemip. Afr., iv, p. 164, 1866.
Fowler, Biol. Centr. Am., Homop., i, p. 82, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.
Adana Stål, Of. Vet. Akad. Forh., xiii, p. 162, 1856.
Stål, Hemip. Afr., iv, p. 164, note, 1866.

2524. **Bothriocera tinealis** Burm.

Burmeister, Handb. d. Ent., ii, p. 156, 1835.
Fowler, Biol. Centr. Am., Homop., i, p. 82, pl. 9, figs. 11, 12, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.

a. var. **westwoodi** Stål

Stål, Of. Vet. Akad. Forh., xiii, p. 163, 1856, *Adana.*
Stål, Stet. Ent. Zeit., xxv, p. 50, 1864.
Fowler, Biol. Centr. Am., Homop., i, p. 82, 1904.
†*signoreti* Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.
Localities: N. C., Fla. (West Indies.)

2525. **Bothriocera signoreti** Stål

Stål, Stet. Ent. Zeit., xxv, p. 50, 1864.
Uhler, Stand. Nat. Hist., ii, p. 240, 1884.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.
Fowler, Biol. Centr. Am., Homop., i, p. 82, pl. 9, fig. 13, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.
Localities: Md., Ga., Fla., Texas. (Mexico.)
(May not be distinct from preceding.)

2526. **Bothriocera undata** (Fabr.)

Fabricius, Syst. Rhyng., p. 101, 1803, *Issus.*
Germar, Thon's Archiv. Ent., ii, p. 51, 1830, *Issus.*
Walker, List Homop., ii, p. 372, 1851, *Issus.*
Stål, Hemip. Fabr., ii, p. 93, 1869.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, p. 22, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 485, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Localities: Fla. (West Indies.)

2527. **Bothriocera(?) bicornis** (Fabr.)

Fabricius, Syst. Rhyng., p. 101, 1803, *Issus.*
Germar, Thon's Archiv. Ent., ii, p. 51, 1830, *Issus.*
Walker, List Homop., ii, p. 372, 1851, *Issus.*
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 60.
Localities: N. J., Md., N. C., Fla., Texas. (Neotropical.)
(North American localities may refer to *undata.*)

Genus **Oliarus** Stål
Logotype *walkeri* (Stål)

Stål, Berl. Ent. Zeit., vi, p. 306, 1862.
Stål, Hemip. Afr., iv, pp. 164, 166, 1866.
Sahlberg, Cicad., p. 384, 1871.
Fieber, Cicad. d'Eur., i, p. 69, 1875; ii, p. 187, 1876.
Mayr, Tabellen, p. 17, 1884.
Ashmead, Ent. Am., v, p. 25, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 222, 1889.
Edwards, Hemip. Homop. Brit. Isds., p. 23, 1896.
Melichar, Cicad. Mitt. Eur., pp. 19, 29, 1896, *Oliarius.*
Kirkaldy, Fauna Hawai., iii, p. 119, 1902.
Fowler, Biol. Centr. Am., Homop., i, p. 92, 1904. [type).
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 255, 256, 1906 (names *walkeri* Stål
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, pp. 396, 397, 1906; iii, pp. 106, 107,
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 485, 1908. (Key.) [1907.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 76, 1909.

Oshanin, Kat. Palae. Hemip., p. 116, 1912 (names *pallens* Germ. type).
Pentastira Kirschbaum, Cicad. v. Wiesbd., pp. 11, 44, 1868.
Pentastiridius Kirschbaum, Cicad. v. Wiesbd., pp. 11, 45, 1868.

2528. **Oliarus quinquelineatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 241, 1830; Compl. Writ., ii, p. 375, *Flata.*
Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Cixius.*
Walker, List Homop., ii, p. 470, 1851, *Poeciloptera;* Suppl., p. 135, 1858, *Cixius.*
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912. [1902, *Flata.*
§*quadrilineata* Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 230,
Localities: Quebec, Ont., N. Y., N. J., Ohio, Fla., Colo.

2529. **Oliarus placitus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 493, 1912.
Localities: Ga., Fla.

2530. **Oliarus vicarius** (Walk.)

Walker, List Homop., ii, p. 343, 1851, *Cixius.*
?Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877, *Cixius.*
?Gillette and Baker, Hemip. Colo., p. 69, 1895, *Cixius.*
Distant, Ann. Mag. Nat. Hist., ser. 7, xix, p. 280, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Localities: Md.(?), Ga., Fla., Texas(?), Colo.(?).

2531. **Oliarus franciscanus** (Stål)

Stål, Freg. Eugen. Resa., Ins., p. 273, 1859, *Cixius.*
Stål, Berl. Ent. Zeit., vi, p. 306, 1862.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Cixius.*
Gillette and Baker, Hemip. Colo., p. 69, 1895.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 22, 1908.
complectus Ball, Can. Ent., xxxiv, p. 152, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 33, 1907.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 488, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.
Localities: Mass., N. Y., N. J., Pa., Md., D. C., Fla., Ohio, Kans., Colo., Ariz., Calif. (West Indies.)

2532. **Oliarus aridus** Ball

Ball, Can. Ent., xxxiv, p. 151, 1902.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 486, 1908.

breviceps Fowler, Biol. Centr. Am., Homop., i, p. 94, pl. 10, fig. 19, 1905.
Localities: Kans., Colo., Calif. (Mexico.)

2533. **Oliarus californicus** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 36, 1914.
Locality: Calif.

2534. **Oliarus sementinus** Ball
Ball, Can. Ent., xxxiv, p. 152, 1902.
Locality: Colo.

2535. *See* 2531

2536. **Oliarus fidus** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 247, 1916.
Locality: Calif.

2537. **Oliarus slossoni** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 494, 1912 (n.n. for *hyalinus* Van D.).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
‖*hyalinus* Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 487, 1908.
Locality: Fla.
(May pertain to genus *Iolania* Kirk.)

2538. **Oliarus difficilis** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 494, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Locality: Fla.

2539. **Oliarus pima** Kirk.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 62, 1907.
Locality: Ariz.

2540. **Oliarus humilis** (Say)
Say, Jl. Acad. Nat. Sci. Phila., vi, p. 241, 1830; Compl. Writ., ii, p. 376, [*Flata.*
Walker, List Homop., ii, p. 470, 1851, *Poeciloptera.*
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Osborn, Ohio Nat., iv, p. 100, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 488, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Localities: Ont., N. Y., N. J., Pa., Ohio.

2541. **Oliarus cinnamomeus** Prov.
Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.
Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 488, 1908.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Localities: N. H., Mass., N. Y., Vanc. Isd.

Genus **Monorachis** Uhl.
Haplotype *sordulentus* Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 509, 1901.

2542. **Monorachis sordulentus** Uhl.

Uhler, Proc. Ent. Soc. Wash., iv, p. 510, 1901.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.
aspersa Fowler, Biol. Centr. Am., Homop., i, p. 87, 1904, *Metabrixia?*
Localities: Fla. (Mexico.)

Genus **Platycixius** Van D.
Orthotype *calvus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.

2543. **Platycixius calvus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 38, 1914.
Locality: Calif.

Genus **Cixius** Latr.
Logotype *nervosus* (Linn.)

Latreille, Hist. Nat. Crust. Ins., xii, p. 310, 1804.
Latreille, Genera Crust. Ins., iii, p. 166, 1807.
Leach *in* Brewster's Edinbg. Encyc., ix, p. 125, 1815.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 216, 1829.
Curtis, Brit. Ent., xiv, pl. 673, 1837 (names *nervosus* type).
Duponchel, Revue Zool., ii, p. 203, 1839 (names *servillei* Spin. pseudotype).
Spinola, Ann. Soc. Ent. Fr., viii, p. 323, 1839.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 115, 1840 (names *cunicularius*
Blanchard, Hist. des. Ins., Hémip., p. 173, 1840. [pseudotype).
Zetterstedt, Ins. Lapp., column 303, 1840.
Amyot and Serville, Hémip., p. 507, 1843.
Spinola, Tavola Sinot., p. 52, 1850.
Walker, List. Homop., ii, p. 339, 1851.
Flor, Rhyn. Livl., ii, p. 15, 1861.
Stål, Hemip. Afr., iv, pp. 164, 169, 1866.
Kirschbaum, Cicad. v. Wiesbd., pp. 11, 46, 1868.
Sahlberg, Cicad., pp. 73, 377, 1871.
Fieber, Cicad. d'Eur., i, p. 68, 1875; ii, p. 166, 1876.
Mayr, Tabellen, p. 16, 1884.
Ashmead, Ent. Am., v, p. 25, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 221, 1889.
Edwards, Trans. Ent. Soc. Lond. for 1888, p. 51.
Melichar, Cicad. Mitt. Eur., pp. 18, 21, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 24, 1896.
Fowler, Biol. Centr. Am., Homop., i, pp. 80, 96, 1904.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 259, 1906.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906. (Key.)
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 484, 488, 1908. (Key.)
†*Flata* Germar, Silb. Revue Ent., i, p. 175, 1833.
‡*Cixia* Burmeister, Handb. d. Ent., ii, p. 156, 1835.

2544. **Cixius dorsivittatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909 (n.n. for *dorsalis* Van D.).
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
‖*dorsalis* Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 491, 1908.
Locality: Fla.

2545. **Cixius misellus** Van D.

Van Duzee, Check List Hemip., p. 79, 1916 (n.n. for *stigmatus* Van D. 1906).
†*stigmatus* Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
Uhler, Stand. Nat. Hist., ii, p. 240, 1884.
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 222, 1889.
Van Duzee, Psyche, v, p. 389, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Gillette and Baker, Hemip. Colo., p. 68, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906 (species defined).
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.
Van Duzee, Can. Ent., xl, p. 114, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 95, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Localities: Quebec, Ont., N. H., Mass., R. I., N. Y., N. J., Pa., N. C., Ga., Mich., Ill., Colo., Texas.

2546. **Cixius basalis** Van D.

Van Duzee, Proc. Acad. Nat. Sci., Phila., lix, p. 489, 1908.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Quebec, Ont., N. H., Mass., R. I., N. Y., Ga., Colo., Texas, Calif., Brit. Col.

2547. **Cixius coloepium** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 452, 1856.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Slosson, Ent. News, viii, p. 240, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.
Localities: Ont., N. H., N. Y., Pa., Ohio, Colo.

2548. **Cixius pini** Fitch

Fitch, Homop. N. Y. St. Cab., p. 45, 1851.
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 490, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
Localities: Quebec, Ont., Mass., N. Y., Pa., N. C.

2549. **Cixius stigmatus** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 336, 1825; Compl. Writ., ii, p. 255,
Fitch, Homop. N. Y. St. Cab., p. 45, 1851. [*Flata.*
Walker, List Homop., ii, p. 469, 1851, *Poecilloptera:* iv, p. 1135, 1852.
Osborn, Ohio Nat., iv, p. 100, 1904.

?Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
lepidus Van Duzee, Trans. Am. Ent. Soc., xxxvi, p. 87, 1910.
Localities: Mo., Kans., Colo.

2550. **Cixius cultus** Ball

Ball, Can. Ent., xxxiv, p. 151, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 37, 1914.
Localities: Kans., Colo., Calif.

Cixius albicinctus Germ.

Smith, Cat. Ins. N. J., edn. 2, p. 88, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Localities: N. J., Pa. (Europe.)
(Probably an erroneous determination.)

Genus **Microledrida** Fowl.
Haplotype *asperata* Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 99, 1904.

2551. **Microledrida fuscata** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 38, 1914.
Locality: Calif.

Genus **Oeclidius** Van D.
Haplotype *nanus* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.

2552. **Oeclidius nanus** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.
Locality: Calif.

Genus **Oecleus** Stål
Logotype *seminiger* Stål

Stål, Berl. Ent. Zeit., vi, p. 306, 1862.
Stål, Hemip. Afr., iv, p. 165, 1866.
Fowler, Biol. Centr. Am., Homop., i, pp. 80, 84, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.

2553. **Oecleus decens** Stål

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.
Townsend, Psyche, vi, p. 353, 1892.
Townsend, Can. Ent., xxiv, p. 197, 1892; xxvi, p. 316, 1894.
Fowler, Biol. Centr. Am., Homop., i, p. 90, pl. 10, figs. 6, 7, 1904.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.
Localities: N. Mex., Calif. (Mexico.)

2554. **Oecleus borealis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 495, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
†*decens* Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.
?Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Localities: N. Y., N. J., D. C., Fla.

2555. **Oecleus obtusus** Ball

Ball, Can. Ent., xxxiv, p. 155, 1902.
Localities: Kans., Colo., Utah, Ariz.

2556. **Oecleus lineatus** Ball

Ball, Can. Ent., xxxiv, p. 154, 1902.
Locality: Ariz.

2557. **Oecleus excavatus** Ball

Ball, Can. Ent., xxxiv, p. 155, 1902.
Locality: Colo.

2558. **Oecleus campestris** Ball

Ball, Can. Ent., xxxiv, p. 156, 1902.
Locality: Colo.

2559. **Oecleus pellucens** Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 90, pl. 10, figs. 8, 9, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 497, 1912.
Localities: Ariz. (Mexico.)

2560. **Oecleus capitulatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 495, 1912 (misprinted *capitualatus*).
Locality: Ariz.

2561. **Oecleus snowi** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 117, 1905.
Snow, Kans. Univ. Sci. Bul., ii, p. 349, 1904.
Locality: Ariz.

2562. **Oecleus fulvidorsum** Ball

Ball, Can. Ent., xxxiv, p. 157, 1902.
Localities: Colo., Ariz.

2563. **Oecleus quadrilineatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 496, 1912.
Locality: Ariz.

2564. **Oecleus nervosus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 496, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 40, 1914.
Locality: Calif.

Genus **Myndus** Stål
Logotype *musivus* (Germ.)

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.
Stål, Hemip. Afr., iv, p. 165, 1866.
Fieber, Cicad. d'Eur., i, p. 61, 1875; ii, p. 157, 1876.
Mayr, Tabellen, p. 16, 1884.
Ashmead, Ent. Am., v, p. 4, 1889.
Melichar, Cicad. Mitt. Eur., pp. 18, 20, 1896.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 484, 1908.
Entithena Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 499, 1866.

2565. **Myndus pictifrons** Stål

Stål, Berl. Ent. Zeit., vi, p. 307, 1862.
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, 491, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 11, 1915.
Localities: N. Y., N. J., D. C., N. C., Ohio.

2566. **Myndus sordidipennis** Stål

Stål, Berl. Ent. Zeit., vi, p. 308, 1862.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 491, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
†*impunctatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894.
Gillette and Baker, Hemip. Colo., p. 69, 1895.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Localities: Ont., N. Y., N. J., Pa., Ga., Colo.

2567. **Myndus delicatus** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 492, 1908.
Locality: Fla.

2568. **Myndus impiger** Ball

Ball, Can. Ent., xxxiv, p. 153, 1902.
Myndus sp., Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Locality: Colo.

2569. **Myndus slossoni** Ball

Ball, Can. Ent., xxxiv, p. 154, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Localities: Ga., Fla.

2570. **Myndus enotatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 188, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Localities: Ga., Fla.

2571. **Myndus lunatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 189, 1909.
Locality: Fla.

2572. **Myndus viridis** Ball

Ball, Can. Ent., xxxiv, p. 153, 1902.
Osborn, Ohio Nat., iv, p. 100, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Localities: N. J., Ohio, Ia., Colo.

2573. **Myndus pusillus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Locality: Fla.

2574. **Myndus fulvus** Osb.

Osborn, Ohio Nat., iv, p. 46, 1903; p. 100, 1904.
Localities: Mass., Conn., Ohio.

2575. **Myndus radicis** Osb.

Osborn, Ohio Nat., iv, p. 42, 1903; p. 100, 1904.
Locality: Ohio.

2576. **Myndus occidentalis** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 39, 1914.
Locality: Calif.

Subfamily TROPIDUCHINAE (Stål)

Stål, Hemip. Afr., iv, pp. 130, 186, 1866, *Tropiduchida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 748, 1870, *Tropiduchina.*
Berg, Hemip. Argent., p. 227, 1879, *Tropiduchina.*
Ashmead, Ent. Am., v, p. 23, 1889, *Tropiduchini* (Tribe).
Fowler, Biol. Centr. Am., Homop., i, p. 103, 1904, *Tropiduchina.*
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 272, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 92, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 474, 1908, *Tropiduchida.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911.
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 1, 1914.
Eutropistidae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.

Genus **Neurotmeta** Guer.
Haplotype *sponsa* Guer.

Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 180, 1856.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, vii, p. 174, 1912.
?*Tangia* Stål, Berl. Ent. Zeit., iii, p. 317, 1859.
Stål, Hemip. Afr., iv, p. 186, 1866. [Walk. type).
Melichar, Verh. Naturf. Vereins. Brunn, liii, p. 100, 1914 (names *viridis*

2577. **Neurotmeta sponsa** Guer.

Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 180, 1856, *Pseudophana* (suggests [a n.gen., *Neurotmeta* for this species).
Uhler, Stand. Nat. Hist., ii, p. 231, 1884, *Tangia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 35, 1907, *Tangia.*
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 101, 1914, *Tangia.*
Localities: Fla. (West Indies.)

Genus **Monopsis** Spin.
Haplotype *tabida* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 302, 1839.
Amyot and Serville, Hémip., p. 507, 1843.
Stål, Hemip. Afr., iv, p. 188, 1866.
Ashmead, Ent. Am., v, p. 21, 1889.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 98, 1907.
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.

2578. **Monopsis tabida** Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 304, pl. 10, fig. 4, 1839.
Amyot and Serville, Hémip., p. 507, 1843.
Walker, List Homop., ii, p. 325, 1851.

Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
?Southwick, Science, xix, p. 357, 1892.
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 82, 1894.
Locality: Fla. (perhaps oriental).

Genus **Pelitropis** Van D.
Haplotype *rotulata* Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 474, 1908.
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.

2579. **Pelitropis rotulata** Van D.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 474, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 187, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Melichar, Verh. Naturf. Vereins Brünn, liii, p. 81, 1914.
Locality: Fla.

Subfamily ISSINAE (Spin.)
Spinola, Ann. Soc. Ent. Fr., viii, p. 204, 1839, *Issites.*
Amyot and Serville, Hémip., pp. lvii, 516, 1843, *Issides* (Groupe).
Walker, List Homop., ii, p. 361, 1851, *Issoides* and *Issites* (part).
Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861, *Issida.*
Stål, Hemip. Afr., iv, pp. 131, 202, 1866, *Issida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 754, 1870, *Issina.*
Sahlberg, Cicad., p. 73, 1871, *Issides.*
Fieber, Kat. Eur. Cicad., p. 4, 1872, *Issidae.*
Fieber, Cicad. d'Eur., i, p. 75, 1875, *Issida.*
Berg, Hemip. Argent., p. 228, 1879, *Issina.*
Uhler, Stand. Nat. Hist., ii, p. 233, 1884, *Issida.*
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Cicad. Mitt. Eur., p. 18, 1896, *Issini.*
Fowler, Biol. Centr. Am., Homop., i, p. 113, 1904, *Issidae.*
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, p. 11, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 1, 1906, *Issiden.*
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 332, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 94, 102, 1907.
Oshanin, Verz. Palae. Hemip., ii, p. 253, 1907, *Issina.*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 468, 1908, *Issida.*
Horvath, Ann. Mus. Natl. Hung., ix, p. 32, 1911, *Issidae.* [tribes.)
Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 85, 1916, *Issiden.* (Key to

TRIBE *CALISCELINI* (A. & S.)
Amyot and Serville, Hémip., pp. lvii, 509, 1843, *Caloscélides.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 3, 4, 1906, *Caliscelidae.*
Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 88, 1916.

Genus **Fitchiella** n.n.
Haplotype *robertsoni* (Fitch)

‖*Naso* Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856.
Uhler, Stand. Nat. Hist., ii, p. 234, 1884.
Ashmead, Ent. Am., v, p. 6, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 17, 1906.

2580. **Fitchiella robertsoni** (Fitch)

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856, *Naso.*
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Naso.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 18, 1906, *Naso.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909, *Naso.*
Localities: N. Y., Md., Fla., Ind., Ill., Kans., Ark., Okla., Texas. (Central Am.)

2581. **Fitchiella fitchi** (Melich.)

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 19, fig. 4, 1906, *Naso.*
Localities: Kans., Colo.

2582. **Fitchiella melichari** (Ball)

Ball, Proc. Biol. Soc. Wash., xxiii, p. 42, 1910, *Naso.*
Locality: Ariz.

Genus **Bruchomorpha** Newm.
Haplotype *oculata* Newm.

Newman, Ent. Mag., v, p. 399, 1838.
Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861.
Stål, Hemip. Afr., iv, p. 203, 1866.
Ashmead, Ent. Am., v, p. 6, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 252, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 20, 1906.
Embolonia Provancher, Pet. Faune Ent. Can., iii, p. 253, 1889.
Lallemand, Genera Ins., fasc. 143, p. 67, 1913.

2583. **Bruchomorpha oculata** Newm.

Newman, Ent. Mag., v, p. 399, 1838.
Walker, List Homop., ii, p. 395, 1851.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 253, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Osborn, Ohio Nat., i, p. 11, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 552, 1905.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 22, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Van Duzee, Can. Ent., xliv, p. 327, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
§*ocellata* Uhler, Hayden's Surv. Terr., Rept. for 1870, p. 472, 1872.
americanus Provancher, Natl. Can., iv, p. 350, 1872, *Cephalelus.*
tricarinata Provancher, Pet. Faune Ent. Can., iii, p. 254, 1889, *Embolonia.*
Lallemend, Genera Ins., fasc. 143, p. 67, 1913.
Localities: Quebec, One., N. Y., N. J., Pa., Md., Va., N. C., Ill., Wis., Ia., Neb., Okla., Colo., Texas.

2584. **Bruchomorpha pallidipes** Stål

Stål, Berl. Ent. Zeit., vi, p. 309, 1862.
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 459, 1877.

Gillette and Baker, Hemip. Colo., p. 70, 1895.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 25, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.
Localities: Va., S. C., Fla., Kans., Colo.

2585. **Bruchomorpha dorsata** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 396, 1856.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876.
Uhler, Stand. Nat. Hist., ii, p. 234, 1884.
Van Duzee, Psyche, v, p. 388, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 125, 1892.
Osborn, Ohio Nat., iv, p. 100, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 23, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., xii, p. 26, 1913.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
flavo-vittata Stål, Berl. Ent. Zeit., vi, p. 309, 1862.
Localities: N. Y., N. J., N. C., Ohio, Wis., Ia., Kans., Mo., Ark., Okla., Colo., Texas. (Mexico.)

2586. **Bruchomorpha suturalis** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, p. 24, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 190, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
Localities: N. C., Fla., Colo., Texas.

2587. **Bruchomorpha mormo** Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 64, 1907; iii, p. 105, 1907.
Kirkaldy, Can. Ent., xxxix, p. 249, 1907.
Locality: Ariz.

2588. **Bruchomorpha tristis** Stål

Stål, Berl. Ent. Zeit., vi, p. 309, 1862.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 23, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
Localities: Ont., N. Y., N. J., D. C., N. C., Fla., Wis., Texas, Calif. (Central Am.)

2589. **Bruchomorpha nasuta** Stål

Stål, Berl. Ent. Zeit., vi, p. 310, 1862.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 22, 1906.
Localities: Pa., Wis.

2590. **Bruchomorpha jocosa** Stål

Stål, Berl. Ent. Zeit., vi, p. 310, 1862.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 25, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Localities: S. C., Fla., Kans., Texas.

Genus **Aphelonema** Uhl.
Haplotype *simplex* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.
Ashmead, Ent. Am., v, p. 5, 1889.
Oshanin, Kat. Palae. Hemip., p. 121, 1912.
‖*Peltonotus* Mulsant and Rey, Ann. Soc. Linn. Lyons, ii, p. 206, 1855.
Stål, Of. Vet. Akad. Forh., xviii, p. 207, 1861.
Stål, Hemip. Afr., iv, p. 203, 1866.
Fieber, Cicad. d'Eur., i, p. 73, 1875; ii, p. 224, 1876.
Mayr, Tabellen, p. 17, 1884.
Melichar, Cicad. Mitt. Eur., pp. 19, 36, 1896. [*tonotus* M. & R.).
Peltonotellus Puton, Cat. Hemip. Palae., edn. 3, p. 70, 1886 (n.n. for *Pel-*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 5, 28, 1906.

2591. **Aphelonema histrionica** (Stål)

Stål, Berl. Ent. Zeit., vi, p. 310, 1862, *Peltonotus.*
Van Duzee, Can. Ent., xxi, p. 8, 1889, *Peltonotus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894, *Peltonotus.*
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897, *Peltonotus.*
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905, *Peltonotellus.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 33, 1906, *Peltonotellus.*
Localities: Ont., Mass., N. Y., Wis., Ia., Nevada.

2592. **Aphelonema rugosa** (Ball)

Ball, Can. Ent., xxxiv, p. 263, 1902, *Peltonotellus.* [*tellus*).
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 34, fig. 8, 1906, *Peltono-*
Localities: Md., Ia., Kans., Colo., Dak., Brit. Am.

2593. **Aphelonema bivittata** (Ball)

Ball, Can. Ent., xxxiv, p. 263, 1902, *Peltonotellus.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 35, 1906, *Peltonotellus.*
Localities: Ia., Neb., Kans., Colo.

2594. **Aphelonema simplex** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 34, 1906.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Localities: N. J., Md., Ia., Dak., Kans.

2595. **Aphelonema decorata** (Van D.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 492, 1908, *Peltonotellus.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909; x, p. 500, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 527, 1914.
Locality: Fla.

2596. **Aphelonema obscura** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 499, 1912.
Locality: Ga.

TRIBE *ISSINI* (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 205, 1839, *Issoides.*
Amyot and Serville, Hémip., pp. lvii, 516, 1843, *Issides.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 3, 100, 1906, *Issidae.*

Genus **Hysteropterum** A. & S.
Logotype *immaculatus* (H. S.)

Amyot and Serville, Hémip., p. 519, 1843.
Fieber, Cicad. d'Eur., i, p. 78, 1875.
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Cicad. Mitt. Eur., pp. 19, 44, 1896.
Fowler, Biol. Centr. Am., Homop., i, pp. 113, 119, 1904. [type].
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 333, 341, 1906 (names *immaculatum*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, pp. 101, 116, 1906.

2597. **Hysteropterum cornutum** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 147, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 493, 1908.
Localities: Colo., Utah, Calif.

2598. **Hysteropterum unum** Ball
Ball, Proc. Biol. Soc. Wash., xxiii, p. 43, 1910.
Locality: Colo.

2599. **Hysteropterum punctiferum** Walk.
Walker, List. Homop., ii, p. 376, 1851.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 148, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 191, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
aciculatus Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 353, 1876, *Issus*.
Localities: Fla., Colo., Texas.

2600. **Hysteropterum auroreum** (Uhl.)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Issus*.
Dyar, Proc. Ent. Soc. Wash., v, p. 43, 1902, *Issus* (parasitized).
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 148, 1906.
Locality: Texas.

Genus **Tylana** Stål
Logotype *cristata* (Fabr.)

Stål, Of. Vet. Akad. Forh., xviii, p. 208, 1861 (nomen nudum here).
Stål, Rio Jan. Hemip., ii, p. 67, 1862 (valid here).
Stål, Hemip. Afr., iv, p. 213, 1866.
Stål, Of. Vet. Akad. Forh., xxvii, p. 762, note, 1870.
Uhler, Stand. Nat. Hist., ii, p. 234, 1884.
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 198, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 102, 105, 1907.
Distant, Ann. Mag. Nat. Hist., ser. 8, iv, p. 76, 1909 (names *cristata* type).

2601. **Tylana ustulata** Uhl.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 354, 1876.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 202, 1906.
Localities: Colo., Ariz.

Genus **Misodema** Melich.
Haplotype *reticulata* (Melich.)

Melichar, Wien. Ent. Zeit., xxvi, p. 324, 1907 (n.n. for *Rileya* Melich.).
‖*Rileya* Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 161, 1906.
Van Duzee, Check List Hemip., p. 81, 1916.

2602. **Misodema reticulata** (Melich.)
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 161, 1906, *Rileya.*
Van Duzee, Check List Hemip., p. 81, 1916, *Rileya.*
Localities: Texas. (Mexico.)

Genus **Dictyssa** Melich.
Logotype *areolata* Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 163, 1906.

2603. **Dictyssa fusca** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 163, 1906.
Locality: Calif.

2604. **Dictyssa marginepunctata** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2605. **Dictyssa clathrata** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.
Locality: Calif.

2606. **Dictyssa areolata** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 164, 1906.
Locality: Calif.

2607. **Dictyssa ovata** Ball
Ball, Proc. Biol. Soc. Wash., xxiii, p. 44, 1910.
Localities: Calif. (Mexico.)

2608. **Dictyssa fenestrata** Ball
Ball, Proc. Biol. Soc. Wash., xxiii, p. 44, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2609. **Dictyssa transversa** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2610. **Dictyssa mutata** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2611. **Dictyssa obliqua** Ball
Ball, Proc. Biol. Soc. Wash., xxiii, p. 45, 1910.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Localities: Calif. (Mexico.)

2612. **Dictyssa semivitrea** (Prov.)
Provancher, Pet. Faune Ent. Can., iii, p. 218, 1889, *Hysteropterum.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.
Van Duzee, Can. Ent., xliv, p. 325, 1912, *Hysteropterum.*
Locality: Calif.

Genus **Dictyonissus** Uhl.
Haplotype *griphus* Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 355, 1876.
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 165, 1906.

2613. **Dictyonissus griphus** Uhl.

Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 166, fig. 29, 1906.
Localities: Texas, Calif. (Centr. Am.)

Genus **Naethus** Stål
Haplotype *vitripennis* (Stål)

Stål, Of. Vet. Akad. Forh., xvii, p. 208, 1861 (nomen nudum here).
Stål, Rio Jan. Hemip., ii, p. 67, 1862 (valid here).
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 166, 1906.

2614. **Naethus grossus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.
Locality: Calif.

2615. **Naethus maculatus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.
Locality: Calif.

2616. **Naethus fenestratus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 167, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2617. **Naethus nigronervosus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 168, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Localities: Ariz., Calif.

2618. **Naethus vitripennis** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 247, 1854, *Hysteropterum*.
Stål, Freg. Eugen. Resa, Ins., p. 279, 1859, *Hysteropterum*.
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 356, 1876.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 168, fig. 30, 1906.
Localities: Ariz., Calif.

Genus **Dictyobia** Uhl.
Haplotype *permutata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 39, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 169, 1906.

2619. **Dictyobia permutata** Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 39, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 169, fig. 31, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 41, 1914.
Locality: Calif.

2620. **Dictyobia atra** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.
Locality: Calif.

2621. **Dictyobia combinata** Ball
Ball, Proc. Biol. Soc. Wash., xxiii, p. 43, 1910.
Locality: Calif.

Genus **Dictyonia** Uhl.
Haplotype *obscura* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 40, 1889.

2622. **Dictyonia obscura** Uhl.
Uhler, Trans. Md. Acad. Sci., i, p. 41, 1889.
Locality: Calif.

Genus **Dyctidea** Uhl.
Logotype *angustata* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 37, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 170, 1906.

2623. **Dyctidea angustata** Uhl.
Uhler, Trans. Md. Acad. Sci., i, p. 37, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 170, fig. 37, 1906.
Locality: Calif.

2624. **Dyctidea intermedia** Uhl.
Uhler, Trans. Md. Acad. Sci., i, p. 38, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 171, 1906.
Locality: Calif.

Genus **Danepteryx** Uhl.
Haplotype *manca* Uhl.

Uhler, Trans. Md. Acad. Sci., i, p. 42, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 174, 1906.

2625. **Danepteryx manca** Uhl.
Uhler, Trans. Md. Acad. Sci., i, p. 42, 1889.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 174, fig. 35, 1906.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.
Locality: Calif.

2626. **Danepteryx lurida** Melich.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 175, 1906.
Locality: Calif.

2627. **Danepteryx barbarae** Kirk.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 23, 1908.
Locality: Calif.

2628. **Danepteryx artemesiae** Kirk.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 23, 1908.
Locality: Calif.

Genus **Osbornia** Ball
Orthotype *cornuta* Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 41, 1910.

2629. **Osbornia cornuta** Ball

Ball, Proc. Biol. Soc. Wash., xxiii, p. 42, 1910.
Localities: Utah, Calif.

Genus **Issus** Fabr.
Orthotype *coleoptratus* (Geof.)

Fabricius, Syst. Rhyng., p. 99, 1803.
Germar, Mag. d. Ent., iii, p. 201, 1818.
Duponchel, Revue Zool., ii, p. 24, 1839 (names *pectinipennis* Guer. pseudotype).
Spinola, Ann. Soc. Ent. Fr., viii, p. 343, 1839.
Amyot and Serville, Hémip., p. 518, 1843.
Walker, List Homop., ii, p. 361, 1851.
Stål, Of. Vet. Akad. Forh., xvii, p. 208, 1861.
Stål, Rio Jan. Hemip., ii, p. 67, 1862.
Stål, Hemip. Afr., iv, p. 361, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 12, 1868.
Sahlberg, Cicad., p. 394, 1871.
Fieber, Cicad. d'Eur., i, p. 77, 1875; ii, p. 244, 1876.
Mayr, Tabellen, p. 18, 1884.
Uhler, Stand. Nat. Hist., ii, p. 234, 1884.
Ashmead, Ent. Am., v, p. 5, 1889.
Melichar, Cicad. Mitt. Eur., p. 40, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 22, pl. 1, fig. 14, 1896.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 184, 1906.
Matsumura, Trans. Sapporo Nat. Hist. Soc., vi, p. 105, 1916.

2630. **Issus servillei** Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 351, 1839.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 192, 1906.
Locality: N. Am.''

Genus **Thionia** Stål
Logotype *longipennis* (Spin.)

Stål, Berl. Ent. Zeit., iii, p. 321, 1859.
Stål, Of. Vet. Akad. Forh., xviii, p. 209, 1861.
Stål, Hemip. Afr., iv, p. 207, 1866.
Stål, Of. Vet. Akad. Forh., xxvii, p. 760, note, 1870.
Ashmead, Ent. Am., v, p. 5, 1889.
Fowler, Biol. Centr. Am., Homop., i, pp. 114, 122, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 268, 1906.

2631. **Thionia simplex** (Germ.)

Germar, Thon's Ent. Archiv., ii, p. 51, 1830, *Issus.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 273, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14; 1915.
Localities: N. J., Md., D. C., N. C., Fla., Ohio, Ky., Mo., Texas.

2632. **Thionia elliptica** (Germ.)

Germar, Thon's Ent. Archiv., ii, p. 51, 1830, *Issus.*
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 277, 1906.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
patulifrons Walker, Ins. Saund., Homop., p. 45, 1858, *Issus.*
Localities: N. J., D. C., N. C., Ga., Ky., Mo.

2633. **Thionia transversalis** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 281, 1906.
Locality: "N. Am."

2634. **Thionia bullata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 240, 1830; Compl. Writ., ii, p. 375, *Flata.*
Walker, List Homop., ii, p. 470, 1851, *Poeciloptera.*
Van Duzee, Psyche, v, p. 389, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 282, 1906.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
conspersus Walker, List Homop., ii, p. 365, 1851, *Issus.*
Uhler, Stand. Nat. Hist., ii, p. 234, 1894, *Tylana.*
Localities: Ont., N. Y., N. J., Pa., D. C., N. C., Ga., Fla., Ohio.

2635. **Thionia ocellata** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 283, 1906.
Locality: "N. Am."

2636. **Thionia producta** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 494, 1908.
Locality: Colo.

Genus **Picumna** Stål
Logotype *varians* Stål

Stål, Stet. Ent. Zeit., xxv, p. 52, 1864.
Stål, Hemip. Afr., iv, p. 207, 1866.
Stål, Of. Vet. Akad. Forh., xxvii, p. 760, 1870.
Fowler, Biol. Centr. Am., Homop., i, pp. 114, 127, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 289, 1906.

2637. **Picumna ovatipennis** (Walk.)

Walker, List Homop., Suppl., p. 88, 1858, *Issus.*
Fowler, Biol. Centr. Am., Homop., i, p. 128, pl. 12, fig. 29, 1904.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 290, 1906.

Genus **Issomorphus** Melich.
Logotype *maculatus* Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 292, 1906.

2638. **Issomorphus maculatus** Melich.

Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, ii, pt. 4, p. 293, 1906.
Locality: N. Mex.

Subfamily ACANALONIINAE (A. & S.)

Amyot and Serville, Hémip., pp. lviii, 520, 1843, *Acanonides.*
Stål, Rio Jan. Hemip., ii, p. 68, 1862, *Acanalonidae.*
Stål, Hemip. Afr., iv, p. 131, 1866, *Acanoniida.*
Stål, Hemip. Fabr., ii, p. 106, 1869, *Acanoniida.*
Berg, Hemip. Argent., p. 228, 1879, *Acanoniina.*
Ashmead, Ent. Am., v, p. 2, 1889, *Acanoniinae.*
Fowler, Biol. Centr. Am., Homop., i, p. 45, 1900.
Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, pp. 179, 181, 1901, *Acanaloniidae.*
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Insp., Bul. 3, p. 9, 1904.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, pp. 468, 495, 1908, *Acanalonida.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909. [pp. 9, 94, 1907.
Amphiscepinae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906, iii,

Genus **Acanalonia** Spin.
Haplotype *servillei* Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 447, 1839.
Stål, Rio Jan. Hemip., ii, p. 68, 1862.
Fowler, Biol. Centr. Am., Homop., i, p. 46, 1900.
Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, p. 183, 1901.
Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 297, 1910.
‡*Acanonia* Amyot and Serville, Hémip., p. 520, 1843.
Stål, Of. Ver. Akad. Forh., xix, p. 491, 1862.
Stål, Hemip. Fabr., ii, p. 106, 1869.
Berg, Hemip. Argent., p. 228, 1879.
Ashmead, Ent. Am., v, p. 2, 1889.
†*Amphiscepa* Uhler, Stand. Nat. Hist., ii, p. 235, 1884.
Melichar, Ann. k. k. Natl. Hofm. Wien, xvi, p. 182, 1901.
Melichar, Abh. k. k. Zool.-Bot. Ges. Wien, iii, pt. 4, p. 215, 1906.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 94, 1907; iv, p. 65, 1907.

[The true *Amphiscepa* Germ. is an Issid genus and has for type *nodipennis* Germ., and of which *Issocepa* Melich. is a synonym. There has never been a genus *Amphiscepa* Say as stated by Melichar.]

2639. **Acanalonia bivittata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 335, 1825; Compl. Writ., ii, p. 255, *Flata.*
Walker, List Homop., ii, p. 469, 1851, *Poeciloptera.*
Stål, Berl. Ent. Zeit., vi, p. 311, 1862, *Acanonia.*
Uhler, Stand. Nat. Hist., ii, p. 235, 1884, *Amphiscepa.*
Van Duzee, Psyche, v, p. 389, 1890, *Amphiscepa.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Amphiscepa.*
Townsend, Can. Ent., xxvi, p. 312, 1894, *Acanonia.*
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 183, 1901, *Amphiscepa.*
Swezey, Ohio Nat., iii, p. 354, 1903 (life history).
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907, *Amphiscepa.*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907, *Amphiscepa.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., xii, p. 19, 1913, *Amphiscepa.*

Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915, *Amphiscepa.*
malina Germar, Thon's Ent. Archiv., ii, p. 52, 1830, *Amphiscepa.*
nana Walker, List Homop., ii, p. 466, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, pp. 489, 491, 1862, *Acanonia.*

a. var. **rubescens** (Melich.)
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 183, 1901, *Amphiscepa.*
Localities: Ont., N. Y., N. J., Pa., D. C., Va., N. C., Ga., Fla., Ohio, Wisc., Minn., Ia., Kans., Mo., Ark., Texas, Ariz. (Mexico.)

2640. **Acanalonia pumila** (Van D.)

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 495, 1908, *Amphiscepa.*
Van Duzee, Can. Ent., xli, p. 127, 1909, *Amphiscepa.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Localities: Fla. (Bermudas.)

2641. **Acanalonia immaculata** (Kirk.)

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907; xii, p. 19, 1913, [*Amphiscepa.*
Localities: Ariz. (Mexico.)

2642. **Acanalonia latifrons** (Walk.)

Walker, List Homop., ii, p. 457, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia.*
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 186, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 192, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
Localities: N. C., Ga., Fla., La.

2643. **Acanalonia servillei** Spin.

Spinola, Ann. Soc. Ent. Fr., viii, p. 448, pl. 16, fig. 2, 1839.
Amyot and Serville, Hémip., p. 520, 1843, *Acanonia.*
Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 179, 1857, *Acanonia.*
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 73, *Acanonia.*
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 186, 1901.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 38, 1907.
lata Walker, List Homop., ii, p. 462, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia.*
robusta Walker, List Homop., ii, p. 449, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia.*
quadrata Walker, List Homop., ii, p. 460, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 491, 1862, *Acanonia.*
Localities: Pa., Fla.

2644. **Acanalonia concinnula** Fowl.

Fowler, Biol. Centr. Am., Homop., i, p. 49, pl. 7, fig. 9, 1900.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 187, 1901.
Localities: Texas. (Mexico.)

2645. **Acanalonia mollicula** Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 42, 1914.
Locality: Calif.

2646. **Acanalonia clypeata** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 496, 1908.

Localities: Utah, Nevada.

2647. **Acanalonia conica** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 238, 1830; Compl. Writ., ii, p. 373, *Flata.*
Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 13, p. 61, 1887, *Flata* (larvae).
Van Duzee, Psyche, v, p. 389, 1890, *Flata.*
Ashmead *in* Smith, Cat. Ins. N. J., edn. 1, p. 438, 1890, *Flata.*
Forbes and Hart, Ill. Agr. Exp. Sta., Bul. 60, p. 431, 1900, *Chlorochara.*
Howard, Insect Book, p. 236, 1901, *Chlorochara.*
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 189, 1901.
Osborn, Ohio Nat., iv, p. 100, 1904, *Chlorochara.*
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Inspect., Bul. 3, p. 7, 1904, *Chloro-*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915. [*chara.*
?panimae Fowler, Biol. Centr. Am., Homop., i, p. 47, pl. 7, fig. 2, 1900.

Localities: Va., N. C., Miss., La., Ohio, Ky., Ind., Ill., Mo., Ark., Texas.

Subfamily FLATINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 204, 387, 1839, *Flatoides.*
Amyot and Serville, Hémip., pp. lviii, 521, 1843, *Flatides.*
Walker, List Homop., ii, p. 403, 1851, *Flatoides.*
Stål, Rio Jan. Hemip., ii, p. 68, 1862, *Flatidae.*
Stål, Hemip. Afr., iv, pp. 131, 235, 1866, *Flatida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 771, 1870, *Flatina.*
Berg, Hemip. Argent., p. 229, 1879, *Flatina.*
Uhler, Stand. Nat. Hist., ii, p. 236, 1884, *Flatida.*
Ashmead, Ent. Am., v, p. 2, 1889.
Fowler, Biol. Centr. Am., Homop., i, pp. 45, 50, 1900.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, p. 194, 1901, *Flatidae.*
Distant, Fauna Brit. Ind., Rhyn., iii, p. 397, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 37, 1907.
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 467, 1908, *Flatida.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.
Horvath, Ann. Mus. Natl. Hung., ix, p. 33, 1911, *Flatidae.*
Poekillopterinae Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; [iii, pp. 9, 93, 1907.

TRIBE *FLATINI* (Melich.)

Melichar, Ann. k. k. Natl. Hofms. Wien, xvi, pp. 179, 194, 1901, *Flatinae.* [(Gruppe.)
Poekillopterini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 93, 1907.

Genus **Carthaea** Stål
Haplotype *caudata* Stål

Stål, Rio Jan. Hemip., ii, pp. 68, 69, 1862.
Stål, Hemip. Afr., iv, p. 236, 1866. [Fabr. pseudotype).
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 30, 1902 (names *emortua*

2648. **Carthaea ricanoides** (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 442, 1839, *Poeciloptera.*
Fowler, Biol. Centr. Am., Homop., i, p. 69, 1900, *Bladina.*

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 33, 1902.
Localities: Calif.(?). (Mexico.)

Genus **Ormenis** Stål
Logotype *rufo-terminata* Stål = *perfecta* (Walk.)

Stål, Rio Jan. Hemip., ii, pp. 68, 69, 1862.
Stål, Hemip. Afr., iv, pp. 236, 243, 1866.
Uhler, Stand. Nat. Hist., ii, p. 236, 1884.
Ashmead, Ent. Am., v, p. 3, 1889.
Fowler, Biol. Centr. Am., Homop., i, pp. 50, 55, 1900.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 64, 1902.
Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 313, 1910 (names *perfecta* Walk.
Jacobi, Deut. Ent. Zeit. for 1915, p. 173. [type).

2649. **Ormenis pruinosa** (Say)

Say, Jl. Acad. Nat. Sci. Phila., vi, p. 237, 1830; Compl. Writ., ii, p. 373, *Flata.*
Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Poeciloptera.*
Walker, List Homop., ii, p. 469, 1851, *Poeciloptera.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 436, 1856, *Poeciloptera.*
Riley, 5th Rept. Nox. Ins. Mo., p. 122, 1873, *Poeciloptera* (egg laying).
Saunders, Ins. Inj. to Fruits, p. 357, 1883, *Poeciloptera.*
Cooke, Inj. Ins. Orch. and Vineyard, p. 225, 1883, *Poeciloptera.*
Uhler, Stand. Nat. Hist., ii, p. 237, 1884. [(larvae).
Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 13, p. 61, 1887, *Poeciloptera*
Packard, 5th Rept. U. S. Ent. Comm., pp. 281, 425, 1890, *Poeciloptera.*
Van Duzee, Psyche, v, p. 389, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Murtfeldt, U. S. Dept. Agr., Div. Ent., Bul. 32, p. 38, 1894.
Townsend, Can. Ent., xxvi, p. 316, 1894.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 71, pl. 5, fig. 7, 1902.
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
?farinosa Walker, Ins. Saund., Homop., p. 55, 1858, *Poeciloptera.*
Localities: Ont., Mass., N. Y., N. J., Pa., Md., N. C., Fla., Miss., Ohio, Mich., Minn., Ia., Neb., Kans., Mo., Ark., Texas, Ariz., Calif. (West Indies, Mexico.)

2650. **Ormenis conformis** Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 73, 1902.
Locality: N. Mex.

2651. **Ormenis infuscata** Stål

Stål, Stet. Ent. Zeit., xxv, p. 55, 1864.
Fowler, Biol. Centr. Am., Homop., i, p. 56, 1900.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 77, 1902.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.
Localities: Ariz., Calif. (Mexico, Centr. Am.)

2652. **Ormenis saucia** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 498, 1912.
Localities: Utah, Nevada.

2653. **Ormenis venusta** Melich.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 84, 1902.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
Localities: N. C., Ga., Texas.

2654. **Ormenis pauperata** Melich.
Melichar, Ann. k. k. Natl. Hofms., Wien, xvii, p. 85, 1902.
Locality: Texas.

2655. **?Ormenis conformata** Melich.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 87, 1902.
Locality: "America."

2656. **Ormenis septentrionalis** (Spin.)
Spinola, Ann. Soc. Ent. Fr., viii, p. 436, 1839, *Poeciloptera.*
Uhler, Stand. Nat. Hist., ii, p. 237, 1884.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 88, 1902.
Swezey, Ohio Nat., iii, p. 355, 1903 (life history).
Wirtner, Ann. Carn. Mus., iii, p. 213, 1904, *Poeciloptera.*
Smith, Cat. Ins. N. J., edn. 3, p. 96, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
Localities: N. Y., N. J., Pa., Md., D. C., N. C., Ga., Ohio, Kans.

2657. **Ormenis barberi** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 498, 1912.
Locality: Ariz.

2658. **Ormenis chloris** Melich.
Melichar, Ann. k. k. Natl. Hofms. Wien, xv, ii, p. 89, pl. 4, fig. 18, 1902.
Locality: N. Am.

2659. **Ormenis relicta** (Fabr.)
Fabricius, Syst. Rhyng., p. 52, 1803, *Flata.*
Stål, Hemip. Fabr., ii, p. 111, 1869.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 92, 1902.
Locality: "N. Am." (Fabr. and Stål, or S. Am., Melich).

2660. **Ormenis contaminata** Uhl.
Uhler, Proc. Zool. Soc. Lond. for 1895, p. 71.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 93, pl. 5, fig. 9, 1902.
Localities: Texas, Ariz., Calif. (West Indies, Mexico.)

2661. **Ormenis proxima** (Walk.)
Walker, List Homop., ii, p. 459, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 100, 1902.
Locality: Fla.

2662. **Ormenis rufifascia** (Walk.)
Walker, List Homop., ii, p. 458, 1851, *Poeciloptera.*
Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 101, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Locality: Fla.

Genus **Mistharnophantia** Kirk.
Haplotype *sonorana* Kirk.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 65, 1907.

2663. **Mistharnophantia sonorana** Kirk.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 66, 1907.
Locality: Ariz.

Genus **Cyarda** Walk.
Haplotype *difformis* Walk.

Walker, List Homop., Suppl., p. 121, 1858.
Stål, Hemip. Afr., iv, p. 237, 1866.
Stål, Berl. Ent. Zeit., x, p. 394, 1867 (names *acuminipennis* Spin. pseudotype).
Uhler, Stand. Nat. Hist., ii, p. 238, 1884.
Ashmead, Ent. Am., v, p. 3, 1889.
Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 133, 1902. [Stål of 1866).
Gelastophantia Kirkaldy, Entomol., xxxvii, p. 280, 1904 (n.n. for *Cyarda*

2664. **Cyarda melichari** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 40, 1907 (n.n. for †*punctata*
Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 496, 1908. [Melich.).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1908.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 15, 1915.
†*punctata* Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 135, pl. 7, fig. 17,
Localities: N. C., Fla. (West Indies.) [1902 (not of Walker).

Genus **Rhynchopteryx** Van D.
Orthotype *caudata* Van D.

Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.

2665. **Rhynchopteryx caudata** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 43, 1914.
Locality: Calif.

TRIBE *FLATOIDINI* (Melich.)

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, pp. 179, 199, 1901, *Flatoidinae*.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 449, 1906, *Flatoidesaria*. (Division.)
Phalacnomorphini Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, pp. 9, 93,
[1907.

Genus **Flatoides** Guer.
Haplotype *tortrix* Guer.

Guerin, Icon. Règne Animal, Ins., p. 362, 1843 (antedates Am. & Serv.).
Stål, Of. Vet. Akad. Forh., xix, p. 489, 1862.
Stål, Hemip. Afr., iv, pp. 237, 248, 1866.
Fowler, Biol. Centr. Am., Homop., i, p. 60, 1900.
Distant, Fauna Brit. Ind., Rhyn., iii, p. 459, 1906.

Phalaenomorpha Amyot and Serville, Hémip., p. 525, 1843.
†*Elidiptera* Walker, List Homop., ii, p. 328, 1851.
†*Cyarda* Stål, Of. Vet. Akad. Forh., xix, p. 490, 1862.

2666. **Flatoides punctatus** (Walk.)

Walker, List Hemip., ii, p. 332, 1851, *Elidiptera.*
Uhler, Stand. Nat. Hist., ii, p. 238, 1884, *Dascalia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 193, 1909.
Distant, Ann. Mag. Nat. Hist., ser. 8, v, p. 319, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Locality: Fla.

2667. **Flatoides acutus** (Uhl.)

Uhler, Proc. Ent. Soc. Wash., iv, p. 514, 1901, *Dascalia.*
†*grisea* Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 41, 1907, *Dascalia.*

2668. **Flatoides signatus** Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 219, 1902.
Locality: N. Am.

2669. **Flatoides scabrosus** Melich.

Melichar, Ann. k. k. Natl. Hofms. Wien, xvii, p. 220, pl. 6, fig. 4, 1902.
Localities: "Ga." (Brazil.)

2670. **Flatoides fuscus** Van D.

Van Duzee, Proc. Acad. Nat. Sci. Phila., lix, p. 497, 1908.
Locality: Ariz.

Subfamily DERBINAE (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, pp. 205, 377, 1839, *Derboides.*
Amyot and Serville, Hémip., pp. lvii, 512, 1843, *Derbides.*
Walker, List Homop., ii, p. 396, 1851, *Derboides.*
Stål, Hemip. Afr., iv, pp. 130, 192, 1866, *Derbida.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 750, 1870, *Derbina.*
Uhler, Stand. Nat. Hist., ii, p. 232, 1884, *Derbida.*
Ashmead, Ent. Am., v, p. 23, 1889, *Derbini.* (Tribe.)
Fowler, Biol. Centr. Am., Homop., i, p. 70, 1900, *Derbidae.*
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 177, 295, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95, 163,
Horvath, Ann. Mus. Natl. Hung., ix, p. 31, 1911, *Derbidae.* [1907, (*Derbidae*).
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 28, 1913. (Keys.)

Genus **Cyclokara** Muir
Orthotype *girdlestoni* Muir

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, pp. 32, 33, 1912.

2671. **Cyclokara vanduzei** (Ball)

Ball, Can. Ent., xxxiv, p. 260, 1902, *Patara.*
Cyclokara vanduzei Muir in litt.
Localities: N. Y., Pa., Ohio.

Genus **Lamenia** Stål
Haplotype *caliginea* Stål

Stål, Freg. Eugen. Resa, Ins., p. 277, 1859.
Stål, Hemip. Afr., iv, p. 193, 1866.
Ashmead, Ent. Am., v, p. 4, 1889.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 403, 1906; iii, pp. 164, 169, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 500, 1912 (synopsis).
Herpis Stål, Rio Jan. Hemip., ii, p. 8, 1862.
Muir, Can. Ent., xlv, p. 112, 1913.
Cedusa Fowler, Biol. Centr. Am., Homop., i, p. 112, 1904.
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 35, 1913.

2672. **Lamenia vulgaris** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 47, 1851, *Poeciloptera*.
Uhler, Stand. Nat. Hist., ii, p. 233, 1884.
Van Duzee, Can. Ent., xxi, p. 7, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 193, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 501, 1912.
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 35, 1913.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
¶*fitchi* Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 403, 1906.
Localities: Quebec, Ont., N. Y., N. J., Pa., D. C., Va., N. C., Ga., Ohio, Ill., Ia., Kans., Texas.

2673. **Lamenia obscura** Ball

Ball, Can. Ent., xxxiv, p. 262, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909; x, p. 502, 1912.
†*vulgaris* Van Duzee, Can. Ent., xxiii, p. 169, 1891.
Localities: Ont., Me., Mass., N. Y., N. J., N. C., Fla., Kans., Colo.

2674. **Lamenia californica** Van D.

Van Duzee, Can. Ent., xxiii, p. 169, 1891.
Gillette and Baker, Hemip. Colo., p. 70, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 502, 1912.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Localities: Colo., Ariz., Calif.

2675. **Lamenia praecox** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 502, 1912.
Locality: Ariz.

2676. **Lamenia edentula** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 503, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
Localities: N. J., N. C., Ga.

2677. **Lamenia maculata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 503, 1912.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 14, 1915.
Localities: Ont., N. C.

Genus **Cenchrea** Westw.
Orthotype *dorsalis* Westw.

Westwood, Trans. Linn. Soc. Lond., xix, p. 15, 1842.
Ashmead, Ent. Am., v, p. 25, 1889.
Kirkaldy, Proc. Haw. Ent. Soc., ii, p. 80, 1909.

2678. **Cenchrea uhleri** Ball

Ball, Can. Ent., xxxiv, p. 261, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 36, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Localities: N. J., Md., D. C., Kans.

2679. **Cenchrea heidemanni** Ball

Ball, Can. Ent., xxxiv, p. 261, 1902.
Localities: D. C., Kans.

2680. **Cenchrea fulva** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909.
Locality: Fla.

Genus **Amalopota** Van D.
Haplotype *uhleri* Van D.

Van Duzee, Can. Ent., xxi, p. 176, 1889; xli, p. 384, 1909.
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.

2681. **Amalopota uhleri** Van D.

Van Duzee, Can. Ent., xxi, p. 178, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Localities: Ont., N. Y., Ill.

2682. **Amalopota fitchi** Van D.

Van Duzee, Can. Ent., xxv, p. 280, 1893.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., Pa., N. C., Kans.

Genus **Anotia** Kby.
Haplotype *bonnetii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 20, 1819.
Germar, Silb. Revue Ent., i, p. 176, 1833.
Burmeister, Handb. d. Ent., ii, p. 153, 1835.
Duponchel, Revue Zool., ii, p. 205, 1839 (names *coccinea* Guer. pseudotype).
Spinola, Ann. Soc. Ent. Fr., viii, p. 384, 1839.
Westwood, Trans. Linn. Soc. Lond., xix, p. 12, 1842.
Blanchard, Hist. des Ins., Hémip., p. 175, 1840.

Fowler, Biol. Centr. Am., Homop., i, p. 77, 1904.
Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.

2683. **Anotia bonnetii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 21, pl. 1, fig. 15, 1819.
Burmeister, Handb. d. Ent., ii, p. 153, 1835.
Spinola, Ann. Soc. Ent. Fr., viii, p. 385, 1839.
Blanchard, Hist. des Ins., Hémip., p. 176, 1840.
Fitch, Homop. N. Y. St. Cab., p. 47, 1851.
Van Duzee, Can. Ent., xli, p. 381, 1909.
Localities: Ont., N. Y., Ga., Kans.

2684. **Anotia westwoodi** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
Van Duzee, Psyche, v, p. 388, 1890.
Localities: N. Y., Ohio, Kans.

2685. **Anotia burnetii** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 395, 1856.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., N. C., Ill.

2686. **Anotia robertsoni** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 395, 1856.
Locality: Ark.

2687. **Anotia sayi** Ball

Ball, Can. Ent., xxxiv, p. 259, 1902.
Locality: N. Y.

2688. **Anotia kirkaldyi** Ball

Ball, Can. Ent., xxxiv, p. 259, 1902 (spelled *Kirkaldayi*).
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 64, 1907.
Localities: Pa., Ia., Kans.

Genus **Otiocerus** Kby.
Logotype *stollii* Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 13, 1819.
Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 216, 1829.
Germar, Silb. Revue Ent., i, p. 176, 1833.
Burmeister, Hand. d. Ent., ii, p. 152, 1835.
Duponchel, Revue Zool., ii, p. 205, 1839 (names *stollii* type).
Spinola, Ann. Soc. Ent. Fr., viii, p. 380, 1839.
Blanchard, Hist. des Ins., Hémip., p. 176, 1840.
Westwood, Trans. Linn. Soc. Lond., xix, p. 12, 1842.
Amyot and Serville, Hémip., p. 513, 1843.
Stål, Hemip. Afr., iv, p. 192, 1866.
Ashmead, Ent. Am., v, p. 24, 1889, *Otiocera*.
Van Duzee, Can. Ent., xxi, p. 158, 1889.
Fowler, Biol. Centr. Am., Homop., i, p. 74, 1900.
Kirkaldy, Entomol., xxxiv, p. 219, 1901 (cites *stollii* as type).
Kirkaldy, Entomol., xl, p. 255, 1907 (names *coqueberti* pseudotype).

Muir, Haw. S. P. A., Exp. Sta. Bul., xii, p. 43, 1913.
Van Duzee, Can. Ent., xlvi, p. 387, 1914. [*stolli* Kby.)
Cobax Germar, Mag. d. Ent., iv, p. 1, 1821 (haplotype *winthemi* Germ. =
‖*Hynnis* Burmeister, Handb. d. Ent., ii, p. 153, 1835 (haplotype *rosea* Burm.
Blanchard, Hist. des Ins., Hémip., p. 175, 1840. [= *degeeri* Kby.).
†*Amphiscepa* Provancher, Pet. Faune Ent. Can., iii, p. 217, 1889.
Apache, Kirkaldy, Entomol., xxxiv, p. 6, 1901 (n.n. for *Hynnis* Burm.).

2689. **Otiocerus degeerii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 16, 1819.
Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
Van Duzee, Can. Ent., xxi, pp. 7, 159, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 195, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
rosea Burmeister, Handb. d. Ent., ii, p. 154, 1835, *Hynnis*.
Blanchard, Hist. des Ins., Hémip., p. 175, 1840, *Hynnis*.
†*coquebertii* Provancher, Pet. Faune Ent. Can., iii, p. 217, 1889, *Amphiscepa*.
Localities: Ont., N. Y., N. J., Pa., Md., N. C., Ga., Fla., Ia., Kans., Mo., Wash.

2690. **Otiocerus stollii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 16, 1819.
Burmeister, Handb. d. Ent., ii, p. 153, 1835.
Signoret, Ann. Soc. Ent. Fr., viii, p. 383, 1839.
Blanchard, Hist. des Ins., Hemip., p. 176, 1840.
Walker, List Homop., ii, p. 401, 1851.
Van Duzee, Can. Ent., xxi, p. 159, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
winthemi Germar, Mag. d. Ent., iv, pp. 5, 446, 1821, *Cobax*.
Localities: N. Y., Pa., Ga., Ohio, Ia.

2691. **Otiocerus abbotii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 17, 1819.
Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Localities: N. Y., Ga., Fla.

2692. **Otiocerus francilloni** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 17, 1819.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Localities: N. J., Ga.

2693. **Otiocerus coquebertii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, pl. 1, fig. 14, 1819.
Westwood, Trans. Linn. Soc. Lond., xix, p. 12, pl. 2, fig. 5, 1842.
Fitch, Homop. N. Y. St. Cab., p. 46, 1851.

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 393, 1856.
Uhler, Stand. Nat. Hist., ii, p. 232, 1884.
Van Duzee, Can. Ent., xxi, pp. 7, 159, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Lugger, 6th Rept. Minn. St. Ent., p. 117, 1900.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Van Duzee, Can. Ent., xxxviii, p. 408, 1906.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: Ont., N. H., N. Y., Pa., N. C., Ga., Ill., Minn., Texas.

2694. **Otiocerus reaumurii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, 1819.
Locality: Ga.

2695. **Otiocerus signoretii** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
Van Duzee, Can. Ent., xxi, p. 176, 1889.
Van Duzee, Psyche, v, p. 388, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Localities: N. Y., Ia., Mo., Ark., Texas.

2696. **Otiocerus wolfii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 19, 1819.
Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
Van Duzee, Can. Ent., xxi, p. 176, 1889.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894.
Wirtner, Ann. Carn. Mus., iii, p. 214, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Localities: N. Y., Pa., Ga., Ohio, Ia.

2697. **Otiocerus amyotii** Fitch

Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 394, 1856.
Van Duzee, Psyche, v, p. 388, 1890.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
†*stollii* Amyot and Serville, Hémip., p. 514, 1843.
Localities: N. Y., Pa., Ga., Ohio, Ia.

2698. **Otiocerus kirbyii** Fitch

Fitch, Homop. N. Y. St. Cab., p. 46, 1851.
Van Duzee, Psyche, v, p. 388, 1890.
Locality: N. Y.

2699. **Otiocerus schellenbergii** Kby.

Kirby, Trans. Linn. Soc. Lond., xiii, p. 18, 1819.
Localities: N. Y., Ga.

Subfamily **DELPHACINAE** (Spin.)

Spinola, Ann. Soc. Ent. Fr., viii, p. 329, 1839, *Delphacoides*.
Amyot and Serville, Hémip., pp. lvii, 510, 1843, *Delphacides*.
Stål, Hemip. Afr., iv, pp. 131, 175, 1866, *Delphacida*.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 517, 1866, *Delphacini*.

Kirschbaum, Cicad. v. Wiesbd., p. 10, 1868, *Delphacidae.*
Stål, Of. Vet. Akad. Forh., xxvii, p. 747, 1870, *Delphacina.*
Fieber, Cicad. d'Eur., i, p. 57, 1875, *Delphacini.*
Uhler, Stand. Nat. Hist., ii, p. 240, 1884, *Delphacida.*
Ashmead, Ent. Am., v, p. 2, 1889.
Melichar, Cicad. Mitt. Eur., p. 18, 1896, *Delphacini.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 225, 1897, *Delphacidae* (monograph).
Fowler, Biol. Centr. Am., Homop., i, p. 130, 1905, *Delphacidae.*
Distant, Fauna Brit. Ind., Rhyn., iii, pp. 178, 465, 1906.
Horvath, Ann. Mus. Natl. Hung., ix, p. 30, 1911, *Delphacidae.*
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 557, 1914, *Delphacidae* (monograph).
Van Duzee, Psyche, xxi, p. 163, 1914 (review of Crawford paper).
Muir, Can. Ent., xlvii, pp. 208, 267, 296, 317, 1915 (synopsis).
Asiracinae Kirkaldy, Jl. Bombay Nat. Hist. Soc., xiv, p. 52, 1902.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 296, 1906; iii, pp. 10, 95, [123, 1907, *Asiracidae.*

Genus **Copicerus** Swartz
Haplotype *irroratus* Swartz

Swartz, Kongl. Vet. Nya Handl., xxiii, p. 180, 1802.
Stål, Of. Vet. Akad. Forh., xiv, p. 53, 1857.
Stål, Ann. Soc. Ent. Fr., ser. 3, v, p. 337, 1858.
Stål, Hemip. Afr., iv, p. 175, 1866.
Ashmead, Ent. Am., v, p. 25, 1889.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 230, 1897.
Fowler, Biol. Centr. Am., Homop., i, p. 130, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 564, 1914.
Holotus Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 180, 1857.
Jerala Walker, List Homop., Suppl., p. 85, 1858.

2700. **Copicerus irroratus** Swartz

Swartz, Kong. Vet. Nya Handl., xxiii, p. 181, pl. 6, fig. 2, 1802 (spelled [*irocatus*).
Stål, Of. Vet. Akad. Forh., xiv, p. 53, 1857.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 230, 1897.
Fowler, Biol. Centr. Am., Homop., i, p. 130, pl. 13, figs. 1, 2, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907.
Crawford, Proc. U. S. Natl., xlvi, p. 564, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
thoracicus Guerin *in* La Sagra, Hist. de Cuba, Ins., p. 180, pl. 13, fig. 17, [1857, *Holotus.*
singula Walker, List Homop., Suppl., p. 85, 1858, *Jerala.*
Stål, Of. Vet. Akad. Forh., xix, p. 488, 1858, *Jerala.*
Localities: Fla. (West Indies.)

Genus **Stenocranus** Fieb.
Logotype *lineola* (Germ.) = *minutus* (Fabr.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.
Fieber, Cicad. d'Eur., i, p. 83, 1875; ii, pl. 7, 1876; iii, p. 10, 1878.
Mayr, Tabellen, p. 19, 1884.
Ashmead, Ent. Am., v, p. 27, 1889.
Melichar, Cicad. Mitt. Eur., p. 56, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 230, 1897.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 126, 1907.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 587, 1914.
Muir, Can. Ent., xlvii, p. 299, 1915.
§*Stenocarenus* Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pl. 8, fig. 3, 1866.
Sahlberg, Cicad., p. 413, 1871 (part).

2701. **Stenocranus dorsalis** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Delphax*.
Walker, List Homop., iv, p. 1136, 1852, *Delphax*.
Van Duzee, Psyche, v, p. 28, 1888, *Liburnia;* p. 390, 1890.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.
Gillette and Baker, Hemip. Colo., p. 69, 1895.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 231, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 196, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Van Duzee, Can. Ent., xliv, p. 325, 1912.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 588, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
unipunctata Provancher, Nat. Can., iv, p. 319, 1872, *Delphax*.
Provancher, Pet. Faune Ent. Can., iii, p. 224, 1889, *Delphax*.

a. var. **vittatus** (Stål)

Stål, Berl. Ent. Zeit., vi, p. 315, 1862, *Delphax*.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 592, 1914.
lautus Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 231, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
Van Duzee, Check List Hemip., p. 83, 1916.
Localities: Quebec, Ont., N. H., N. J., Pa., D. C., Va., N. C., S. C., Fla., Ohio, Ill., Ia., Neb., Colo.

2702. **Stenocranus similis** Craw.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 590, 1914.
Locality: Ala.

2703. **Stenocranus felti** Van D.

Van Duzee, Trans. Am. Ent. Soc. xxxvi, p. 88, 1910.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 591, 1914.
Localities: N. H., N. Y.

2704. **Stenocranus palaetus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897; ix, p. 196, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 591, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Locality: Fla.

2705. **Stenocranus saccharivorus** (Westw.)

Westwood, Mag. Nat. Hist., vi, p. 413, 1833, *Delphax*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897.

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 409, 1906; iii, p. 139, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907; ix, p. 196, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 589, 1914.
Van Duzee, Psyche, xxi, p. 165, 1914.
Localities: Fla. (West Indies, Hawaiian Isds.)

Genus **Kelisia** Fieb.
Haplotype *guttula* (Germ.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.
Sahlberg, Cicad., p. 416, 1871.
Fieber, Cicad. d'Eur., i, p. 83, 1875; ii, pl. 7, 1876; iii, p. 13, 1878.
Mayr, Tabellen, p. 18, 1884.
Ashmead, Ent. Am., v, p. 27, 1889.
Melichar, Cicad. Mitt. Eur., pp. 50, 58, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 229, 232, 1897.
Muir, Can. Ent., xlvii, p. 299, 1915.

2706. **Kelisia axialis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 232, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Osborn, Ohio Nat., iv, p. 100, 1904.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 613, 1914, *Megamelus*.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
Localities: Ont., N. Y., Pa., Md., N. C., Ohio, Ia.

2707. **Kelisia crocea** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 233, 1897.
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1897, *Stenocranus*.
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 591, 1914.
Van Duzee, Psyche, xxi, p. 165, 1914.
Localities: Mass., Ia., Kans.

2708. **Kelisia salina** Ball

Ball, Can. Ent., xxxiv, p. 264, 1902.
Locality: Colo.

2709. **Kelisia parvula** Ball

Ball, Can. Ent., xxxiv, p. 264, 1902.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 631, 1914.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Localities: Fla., Ia., Kans.

Genus **Megamelanus** Ball
Orthotype *bicolor* Ball

Ball, Can. Ent., xxxiv, p. 265, 1902.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 592, 1914.

2710. **Megamelanus bicolor** Ball

Ball, Can. Ent., xxxiv, p. 265, 1902.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 592, 1914.
Localities: Colo., Calif.

2711. **Megamelanus frontalis** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 593, 1914.
Locality: Colo.

2712. **Megamelanus elongatus** Ball

Ball, Proc. Biol. Soc. Wash., xviii, p. 118, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 196, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 593, 1914, *Megamelus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Localities: Fla., La.

2713. **Megamelanus spartini** Osb.

Osborn, Ohio Nat., v, p. 375, 1905
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 593, 1914, *Megamelus*.
Barber, Bul. Am. Mus. Natl. Mus., xxxiii, p. 528, 1914.
Localities: N. Y., Fla.

2714. **Megamelanus rufivittatus** Ball

Ball, Proc. Biol. Soc. Wash., xxviii, p. 119, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 593, 1914.
Locality: Ga.

Genus **Prokelisia** Osb.
Haplotype *setigera* Osb.

Osborn, Ohio Nat., v, p. 373, 1905.
Muir, Can. Ent., xlvii, p. 300, 1915.

2715. **Prokelisia setigera** Osb.

Osborn, Ohio Nat., v, p. 373, 1905.
Locality: La.

2716. **Prokelisia marginata** (Van D.)

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 234, 1897, *Megamelus*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909, *Megamelus*.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910, *Megamelus*.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 609, 1914, *Megamelus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914, *Megamelus*.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914, *Megamelus*.
Van Duzee, Check List Hemip., p. 83, 1916.
Localities: Mass., N. Y., N. J., Fla., Calif.

Genus **Megamelus** Fieb.
Haplotype *notulus* (Germ.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, 1866.
Sahlberg, Cicad., pp. 74, 411, 1871.
Fieber, Cicad. d'Eur., i, p. 82, 1875; ii, pl. 7, 1876; iii, p. 7, 1878.
Mayr, Tabellen, p. 18, 1884.
Ashmead, Ent. Am., v, p. 26, 1889.
Melichar, Cicad. Mitt. Eur., pp. 49, 55, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 229, 233, 1897.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 127, 1907.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 602, 1914 (in part).

Van Duzee, Psyche, xxi, p. 165, 1914.
Muir, Can. Ent., xlvii, p. 301, 1915.

2717. **Megamelus notulus** (Germ.)

Germar, Thon's Ent. Archiv., ii, p. 57, 1830, *Delphax.*
Stål, Of. Vet. Akad. Forh., xi, p. 192, 1854, *Delphax.*
Walker, List Homop., Suppl., p. 323, 1858, *Delphax.*
Flor, Rhyn. Livl., ii, p. 45, 1861, *Delphax.*
Marshall, Ent. Mo. Mag., i, p. 266, 1865.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 519, pl. 8, fig. 2, 1866.
Sahlberg, Cicad., p. 412, 1871.
Scott, Ent. Mo. Mag., vii, p. 25, 1871, *Liburnia.*
Fieber, Cicad. d'Eur., iii, p. 9, 1878.
Melichar, Cicad. Mitt. Eur., p. 55, pl. 4, figs. 1–8, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 38, pl. 4, figs. 3, 4, 1896, *Liburnia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 233, 1897.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 609, 1914.

truncatipennis Boheman, Of. Vet. Akad. Forh., iv, p. 266, 1847, *Delphax.*
Boheman, Kongl. Vet. Akad. Handl. for 1847, p. 46, 1847, *Delphax.*
Stål, Of. Vet. Akad. Forh., xi, p. 190, 1854, *Delphax.*
Kirschbaum, Cicad. v. Wiesbd., p. 20, 1868, *Delphax.*

†*lineola* Stål, Of. Vet. Akad. Forh., xi, p. 190, 1854, *Delphax.*

†*albosignatus* Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894; p. 259, [1897, *Achorotile* (young).

a. var. **flavus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 609, 1914.
Localities: Ont., N. H., Mass., N. Y., Colo. (Europe.)

2718. **Megamelus piceus** Van D.

Van Duzee, Mich. Agr. Exp. Sta., Bul. 102, p. 8, pl. 1, fig. 5, 1894.
Van Duzee, Exp. Sta. Record, v, p. 792, 1894.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 190, 234, 1897.
Localities: N. Y., Mich.

2719. **Megamelus constrictus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 610, 1914.

a. var. **minutus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 610, 1914.
Localities: Colo., Calif.

2720. **Megamelus angulatus** Osb.

Osborn, Ohio Nat., v, p. 374, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 629, 1914.
Locality: Del.

2721. **Megamelus davisi** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 235, 1897.
Locality: Mich.

Genus **Macrotomella** Van D.
Haplotype *carinata* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907.
Van Duzee, Psyche, xxi, p. 164, 1914.
Muir, Can. Ent., xlvii, p. 298, 1915.

2722. **Macrotomella carinata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907; ix, p. 197, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 583, 1914, *Jassidaeus.*
Localities: Fla. (West Indies.)

Genus **Pissonotus** Van D.
Orthotype *marginatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 236, 1897.
Muir, Can. Ent., xlvii, p. 301, 1915.

2723. **Pissonotus marginatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 236, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 596, 1914, *Dicranotropis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Localities: Quebec, Ont., N. Y., Pa., Fla., Ohio, Ia., Calif.

2724. **Pissonotus basalis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 238, 1897 (described).
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.
Van Duzee, Psyche, xxi, p. 165, 1914.
Localities: N. Y., Fla., Texas(?).

2725. **Pissonotus binotatus** Spur.

Spooner, Can. Ent., xliv, p. 239, 1912.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 601, 1914, *Dicranotropis.*
Locality: Ga.

2726. **Pissonotus ater** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 237, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis.*
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 528, 1914.
Localities: N. Y., D. C., Fla., Ia.

2727. **Pissonotus divaricatus** Spur.

Spooner, Can. Ent., xliv, p. 236, 1912.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis.*
Locality: N. Y.

2728. **Pissonotus pallipes** Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).
Baker, Ent. News, viii, p. 53, 1897 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 238, 1897 (described).
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 599, 1914, *Dicranotropis.*
Localities: N. H., N. Y., Pa., Fla., Miss., Kans., Colo., Calif.

2729. **Pissonotus variegatus** Spnr.

Spooner, Can. Ent., xliv, p. 235, 1912.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis.*
Locality: Texas.

2730. **Pissonotus metzaria** (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 611, 1914, *Megamelus.*
Locality: Wyo.

2731. **Pissonotus delicatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 237, 1897.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 44, 1907; ix, p. 198, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 596, 1914, *Dicranotropis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Localities: N. J., D. C., Fla., Miss., Colo., Calif. (Jamaica.)

2732. **Pissonotus guttatus** Spnr.

Spooner, Can. Ent., xliv, p. 233, 1912.
Crawford, Proc. U. S Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis.*
Localities: Ont., N. Y., D. C.

2733. **Pissonotus dorsalis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 599, 1914, *Dicranotropis.*
Localities: N. Y., Ohio.

2734. **Pissonotus frontalis** (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 597, 1914, *Dicranotropis.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Localities: Calif., Ore.

2735. **Pissonotus brunneus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 599, 1914, *Dicranotropis.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
Localities: Ont., Mass., N. Y., N. J., Pa., N. C., Fla., Ohio, Ia.

2736. **Pissonotus piceus** Spnr.

Spooner, Can. Ent., xliv, p. 238, 1912.
Locality: N. Y.

2737. **Pissonotus aphidioides** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 190, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 239, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.

Osborn, Ohio Nat., iv, p. 100, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 597, 1914, *Dicranotropis.*
Localities: Ont., N. Y., Ohio, Ia.

Genus **Peregrinus** Kirk.
Orthotype *maidis* Ashm.

Kirkaldy, Entomol., xxxvii, p. 175, 1904.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 407, 1906; iii, pp. 127, 132, 1907.
Kirkaldy, Fauna Hawai., ii, p. 577, 1910.
Muir, Can. Ent., xlvii, p. 299, 1915.

2738. **Peregrinus maidis** (Ashm.)

Ashmead, Psyche, v, p. 323, 1890, *Delphax.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 240, 1897, *Dicranotropis.*
Swezey, Ohio Dept. Agr., Div. Nurs. Orch. Inspect., Bul. 3, p. 35, 1904,
Kirkaldy, Entomol., xxxvii, p. 176, 1904. [*Dicranotropis.*
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., i, p. 407, 1906, iii, p. 132, pl. 10, fig.
[14, pl. 12, figs. 7, 8, 1907.
Kirkaldy, Ann. Soc. Ent. Belg., li, pp. 127, 301, 1907.
Kirkaldy, Entomol., xl, p. 283, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 43, 1907.
Distant, Ann. Soc. Ent. Belg., li, p. 221, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 197, 1909.
Kirkaldy, Fauna Hawai., ii, p. 577, 1910.
Melichar, Notes Leyden Mus., xxxvi, p. 111, 1913.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 595, 1914, *Dicranotropis.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
Muir, Can. Ent., xlix, p. 147, 1917.
psylloides Lethierry, India Mus. Notes, iii, p. 105, 1896, *Delphax.*
Melichar, Homop. Fauna Ceyl., p. 101, pl. 2, fig. 22, 1903, *Liburnia.*
Distant, Fauna Brit. Ind., Rhyn., iii, p. 484, 1906, *Liburnia.* [*luoya.*
simplicia Distant, Fauna Brit. Ind., Rhyn., iii, p. 468, fig. 255, 1906, *Punda-*
Localities: N. C., Fla., Texas. (West Indies, Hawaiian Isds., Australia, India.)

Genus **Phyllodinus** Van D.
Haplotype *nervatus* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 240, 1897.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 583, 1914.
Muir, Can. Ent., xlvii, p. 297, 1915.

2739. **Phyllodinus nervatus** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894, *Eurysa* (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 241, 1897 (described).
Wirtner, Ann. Carn. Mus., iii, p. 215, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 584, 1914.
Localities: Quebec, Ont., N. H., N. Y., Pa., Ohio.

2740. **Phyllodinus nitens** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 198, 1909.
Van Duzee, Psyche, xxi, p. 164, 1914.
Locality: Fla.

2741. **Phyllodinus koebelei** Osb.

Osborn, Ohio Nat., iv, p. 44, 1903; iv, p. 100, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 585, 1914.
Localities: D. C., Ohio.

2742. **Phyllodinus fuscous** Osb.

Osborn, Ohio Nat., iv, p. 46, 1903; iv, p. 100, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 585, 1914.
Locality: Ohio.

2743. **Phyllodinus flabellatus** Ball

Ball, Can. Ent., xxxv, p. 232, 1903.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 584, 1914.
Localities: N. Y., N. J., Pa., D. C.

Genus **Kormus** Fieb.
Haplotype *artemisiae* Fieb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 520, 1866.
Fieber, Cicad. d'Eur., i, p. 87, 1875; ii, pl. 7, 1876; iii, p. 32, 1878.
Mayr, Tabellen, p. 20, 1884.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 586, 1914.
Muir, Can. Ent., xlvii, p. 298, 1915.

2744. **Kormus californicus** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 586, 1914.
Locality: Calif.

Genus **Laccocera** Van D.
Orthotype *vittipennis* Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 241, 1897 (misprinted *Laccocara* on [p. 229).
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 579, 1914.
Muir, Can. Ent., xlvii, p. 297, 1915.

2745. **Laccocera vittipennis** Van D.

Slosson, Ent. News, vi, p. 5, 1895 (*Delphacinus vittipennis* Van D. MS).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 242, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Van Duzee, Ottawa Nat., xxvi, p. 69, 1912.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 580, 1914. [*Delphacinus.*
[*vittatus* Van D. MS] Gillette and Baker, Hemip. Colo., p. 69, 1895,
Localities: Quebec, Ont., N. H., N. Y., Ia., Colo., Nev.

2746. **Laccocera zonata** Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (*Delphacinus zonatus* Van D. MS).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 243, 1897 (described).
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 581, 1914.

a. var. **flava** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 581, 1914.
Localities: Colo., Nev.

2747. **Laccocera bicornata** Crawf.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 582, 1914.
Locality: Colo.

2748. **Laccocera obesa** Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (*Delphacinus obesus* Van D. MS).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 244, 1897 (described).
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 582, 1914.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 248, 1916.
Localities: Colo., Nev., Calif.

Genus **Bostaera** Ball
Orthotype *nasuta* Ball

Ball, Can. Ent., xxxiv, p. 266, 1902.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 577, 1914.
Van Duzee, Psyche, xxi, p. 164, 1914.
Muir, Can. Ent., xlvii, p. 296, 1915. [type *apacheanus* Kirk.).
Cochise Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 63, 1907 (Haplo-
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 576, 1914.

2749. **Bostaera nasuta** Ball

Ball, Can. Ent., xxxiv, p. 266, 1902.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
apacheanus Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iv, p. 64, 1907, *Cochise*.
Muir, Proc. Haw. Ent. Soc., ii, p. 239, pl. 6, fig. 3, 1913.
Localities: N. C., Fla., Colo., Ariz.

Genus **Stobaera** Stål
Haplotype *concinna* Stål

Stål, Berl. Ent. Zeit., iii, p. 327, 1859.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 244, 1897.
Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 571, 1914.
Muir, Can. Ent., xlvii, p. 297, 1915.
Goniolcium Fowler, Biol. Centr. Am., Homop., i, p. 132, 1905.

2750. **Stobaera concinna** (Stål)

Stål, Of. Vet. Akad. Forh., xi, p. 246, 1854, *Delphax*.
Stål, Berl. Ent. Zeit., iii, p. 327, 1859.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
granulosum Fowler, Biol. Centr. Am., Homop., i, p. 132, pl. 13, fig. 7, 1905,
Muir, Proc. Haw. Ent. Soc., ii, p. 242, 1913. [*Goniolcium*.
Localities: N. J., Fla., Calif. (Mexico.)

2751. **Stobaera tricarinata** (Say)

Say, Jl. Acad. Nat. Sci. Phila., iv, p. 237, 1825; Compl. Writ., ii, p. 255,
Uhler, Bul. U. S. Geol. Geog. Surv., i, p. 352, 1876, *Delphax*. [*Delphax*.
Van Duzee, Psyche, v, p. 389, 1890, *Delphax*.
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Delphax*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894, *Conomelus?*
Gillette and Baker, Hemip. Colo., p. 69, 1895, *Conomelus*.
Slosson, Ent. News, vii, p. 265, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 245, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Van Duzee, Can. Ent., xliv, p. 329, 1912.
Muir, Proc. Haw. Ent. Soc., ii, p. 241, 1913.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 572, 1914 (part).
Van Duzee, Psyche, xxi, p. 164, 1914.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

bifasciata Provancher, Pet. Faune Ent. Can., iii, p. 337, 1890, *Delphax.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.
Localities: Quebec, Ont., N. H., N. Y., N. J., Pa., Va., N. C., Ala., Miss., Ohio, Ky., Ill., Ia., Minn., Neb., Kans., Mo., Ark., Texas, Colo., Ariz., Calif.

2752. **Stobaera affinis** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 199, 1909.
Locality: Fla.

2753. **Stobaera pallida** Osb.
Osborn, Ohio Nat., v, p. 375, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 575, 1914.
Localities: N. Y., Md., Del., Fla.

2754. **Stobaera minuta** Osb.
Osborn, Ohio Nat., v, p. 376, 1905.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Localities: La., Calif.

2755. **Stobaera 4-pustulata** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 200, 1909.

foveatus Spooner, Can. Ent., xliv, p. 234, 1912, *Pissonotus.*
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 600, 1914, *Dicranotropis.*
Localities: Fla., Texas.

2756. **Stobaera nigripennis** Crawf.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 576, 1914.
Locality: Calif.

2757. **Stobaera bilobata** Van D.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 44, 1914.
Locality: Calif.

Genus **Liburniella** Crawf.
Orthotype *ornata* (Stål)

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 585, 1914.
Van Duzee, Psyche, xxi, p. 165, 1914.

2758. **Liburniella ornata** (Stål)
Stål, Berl. Ent. Zeit., vi, p. 315, 1862, *Delphax.*
Osborn, Proc. Ia. Acad. Sci., i, pt. 2, p. 127, 1892, *Liburnia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894; p. 247, 1897, *Liburnia.*

Wirtner, Ann. Carn. Mus., iii, p. 216, 1904, *Liburnia*.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907, *Liburnia*.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 203, 1909, *Liburnia*.
Van Duzee, Can. Ent., xli, p. 128, 1909, *Liburnia*.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910, *Liburnia*.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 586, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915, *Liburnia*.
Localities: Ont., N. Y., N. J., Pa., D. C., N. C., S. C., Fla., Miss., Ohio, Ky., Ill., Minn., Ia., Kans. (Bermudas.)

Genus **Liburnia** Stål
Logotype *pellucida* (Fabr.)

Stål, Hemip. Afr., iv, pp. 176, 179, 1866 (n.n. for *Delphax* Auct.).
Scott, Ent. Mo. Mag., vii, pp. 23, 25, 1870.
Sahlberg, Cicad., p. 422, 1871.
Fieber, Kat. Eur. Cicad., p. 5, 1872.
Fieber, Cicad. d'Eur., i, p. 89, 1875; ii, pl. 8, 1876; iv, p. 1, 1879.
Berg, Hemip. Argent., p. 223, 1879.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 51.
Melichar, Cicad. Mitt. Eur., p. 69, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 246, 1897.
Kirkaldy, Entomol., xxxv, p. 167, 1902.
Fowler, Biol. Centr. Am., Homop., i, p. 133, 1905. [type).
Distant, Fauna Brit. Ind., Rhyn., iii, p. 480, 1906 (names *monoceros* pseudo-
Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 504, 1912 (discussion of type).
Van Duzee, Psyche, xxi, p. 166, 1914 (names *pellucida* type).
Bergroth, Can. Ent., xlvii, p. 215, 1915 (cites *pellucida* as type).
Muir, Can. Ent., xlvii, p. 300, 1915.
Muir, Proc. Haw. Ent. Soc., iii, p. 333, 1917 (names *vitticollis* type).
†*Asiraca* Latreille, Hist. Nat. Crust. Ins., xii, p. 316, 1804 (in part).
†*Delphax* Latreille, Genera Crust. Ins., iii, p. 168, 1807.
Latreille, Consid. Général, pp. 263, 434, 1810 (names *striata* pseudotype).
Leach *in* Brewster's Edinbg. Encyc., ix, p. 125, 1815.
Germar, Mag. d. Ent., iii, p. 205, 1818.
Fallén, Hemip. Suec., Cicad., p. 73, 1826 (part).
Zetterstedt, Fauna Lapp., p. 547, 1828.
Germar, Silb. Revue Ent., i, p. 176, 1833.
Duponchel, Revue Zool., ii, p. 204, 1839 (names *limbata* pseudotype).
Spinola, Ann. Soc. Ent. Fr., viii, p. 329, 1839.
Blanchard, Hist. des Ins., Hémip., p. 177, 1840.
Amyot and Serville, Hémip., p. 512, 1843.
Stål, Of. Vet. Akad. Forh., xi, p. 189, 1854.
Flor, Rhyn. Livl., ii, p. 25, 1861.
Stål, Rio Jan. Hemip., ii, p. 7, 1862.
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pp. 520, 524, 1866.
Mayr, Tabellen, p. 20, 1884.
Puton, Cat. Hemip. Palae., edn. 3, p. 73, 1886.
Ashmead, Ent. Am., v, p. 26, 1889.
Provancher, Pet. Faune Ent. Can., iii, p. 223, 1889.
Matsumura, Schrift. Nat. Ges. Danzig, xi, p. 76, 1906.
Oshanin, Verz. Palae. Hemip., ii, p. 312, 1907. [genus).
Delphacodes Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 524, 1866 (sub-

Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 149, 1907.
Muir, Proc. Haw. Ent. Soc., iii, p. 332, 1917.
†*Embolophora* Kirkaldy, Entomol., xxxiv, pp. 6, 340, 1901. [Fieb. 1866).
Delphacissa Kirkaldy, Can. Ent., xxxviii, p. 155, 1906 (n.n. for *Delphax*
†*Megamelus* Crawford, Proc. U. S. Natl. Mus., xlvi, p. 602, 1914 (part).

2759. **Liburnia slossoni** Ball

Ball, Can. Ent., xxxv, p. 231, 1903.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 201, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: Ga., Fla.

2760. **Liburnia weedi** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 252, 1897; ix, p. 202, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: Ga., Fla., Miss.

2761. **Liburnia humilis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 48, 1907; ix, p. 202, 1909.
Localities: Fla. (Jamaica.)

2762. **Liburnia laminalis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 251, 1897; ix, p. 201, 1909.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 624, 1914, *Megamelus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., N. C., Fla., Ohio.

2763. **Liburnia lateralis** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 253, 1897 (described).
Localities: Ont., N. H., N. Y.

2764. **Liburnia kilmani** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 253, 1897 (described).
Osborn, Ohio Nat., iv, p. 100, 1904.
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. Y., N. C., Ohio.

2765. **Liburnia culta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 47, 1907.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 628, 1914, *Megamelus*.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: Fla. (Jamaica.)

2766. **Liburnia pellucida** (Fabr.)

Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora*.
Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax*.
Germar, Mag. d. Ent., iii, p. 212, 1818, *Delphax*.
Fallén, Hemip. Suec. Cicad., p. 76, 1826, *Delphax*.
Zetterstedt, Fauna Lapp., p. 548, 1828, *Delphax*.
Burmeister, Handb. d. Ent., ii, p. 150, 1835, *Delphax*.
Spinola, Ann. Soc. Ent. Fr., viii, p. 334, 1839, *Delphax*.
Stål, Of. Vet. Akad. Forh., xi, p. 193, 1854, *Delphax*.

Flor, Rhyn. Livl., ii, p. 65, 1861, *Delphax.*
Marshall, Ent. Mo. Mag., i, p. 273, 1865, *Delphax.*
Scott, Ent. Mo. Mag., vii, p. 27, 1870.
Sahlberg, Cicad., p. 436, 1871.
Fieber, Cicad. d'Eur., iv, p. 4, 1879.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 78.
Harrington, Ottawa Nat., vi, p. 31, 1892.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.
Melichar, Cicad. Mitt. Eur., p. 75, pl. 5, fig. 16, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 58, pl. 6, fig. 8, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v. p, 247, 1897.
Kirkaldy, Entomol., xxxiv, p. 338, 1901, *Embolophora.*
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Slosson, Ent. News, xvii, p. 326, 1906.
Van Duzee, Can. Ent., xl, p. 114, 1908.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 615, 1914, *Megamelus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.

marginata Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora.*
Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax.*
Germar, Mag. d. Ent., iii, p. 215, 1818, *Delphax.*

flavescens Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora.*
Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax.*
Germar, Mag. d. Ent., iii, p. 213, 1818, *Delphax.*

striata Fabricius, Ent. Syst., iv, p. 7, 1794, *Fulgora.*
Fabricius, Syst. Rhyng., p. 84, 1803, *Delphax.*
Germar, Mag. d. Ent., iii, p. 214, 1818, *Delphax.*

dispar, Fallén, Acta Holm for 1806, p. 126, *Delphax.*
Fallén, Hemip. Suec., Cicad., p. 74, 1826, *Delphax.*
Zetterstedt, Fauna Lapp., p. 548, 1828, *Delphax.*
Herrich-Schaeffer, Nomen. Ent., i, p. 106, 1835, *Delphax.*
Fieber, Cicad. d'Eur., iv, p. 8, 1879.

dubia Kirschbaum, Cicad. v. Wiesbd., p. 26, 1826, *Delphax.*

piccola Kirschbaum, Cicad. v. Wiesbd., p. 30, 1826, *Delphax.*

suturalis Curtis, Brit. Ent., xiv, pl. 657, 1837, *Delphax.*

a. var. **obscura** Fieb.
Fieber, Cicad. d'Eur., iv, p. 3, 1879.
pellucida var. g, Sahlberg, Cicad., p. 438, 1871.

b. var. **fascicollis** (Rey)
Rey, Revue d'Ent., x, p. 244, 1891, *Delphax.*

c. var. **variicollis** (Rey)
Rey, Échange, x, p. 14, 1894, *Delphax.*
Oshanin, Verz. Palae. Hemip., iii, p. 185, 1910, *Delphax.*
Localities: Quebec, Ont., N. H., N. Y., N. J., N. C., Ohio, Colo., Brit. Col., Alaska. (Palaearctic.)
[The varieties have not been worked up in this country.]

2767. **Liburnia consimilis** Van D.

Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 249, 1897.

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 616, 1914, *Megamelus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.
?Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 13, 1915.
Localities: N. C.(?), Colo., Calif., Nev., Brit. Col.

2768. **Liburnia puella** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 250, 1897 (described).
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Wirtner, Ann. Carn. Mus., iii, p. 216, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 160, 1907.
Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 202, 1909.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 625, 1914, *Megamelus.*
Metcalfe, Jl. Elisha Mitchell Sci. Soc., xxxi, p. 12, 1915.
Muir, Proc. Haw. Ent. Soc., iii, p. 337, 1917.
Localities: Quebec, Ont., N. Y., N. J., Pa., N. C., Fla., Miss., Ohio, Ky., Ill., Ia. (Hawaiian Isds., Australia).

2769. **Liburnia basivitta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 202, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 626, 1914, *Megamelus.*
Localities: Mass., N. Y., Ga., Fla., Ohio.

2770. **Liburnia pacifica** (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 626, 1914, *Megamelus.*
Localities: Ariz., Calif.

2771. **Liburnia osborni** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 250, 1897 (described).
Osborn, Proc. Ia., Acad. Sci., v, p. 235, 1897.
Osborn, Ohio Nat., iv, p. 100, 1904.
?Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: N. Y., N. J., Fla., Ohio, Mich., Ill., Ia., Colo.

2772. **Liburnia arvensis** (Fitch)

Fitch, Homop. N. Y. St. Cab., p. 46, 1851, *Delphax.*
Van Duzee, Psyche, v, p. 390, 1890.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 248, 1897.
Locality: N. Y.

2773. **Liburnia campestris** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 254, 1897 (described).
Swezey, U. S. Dept. Agr., Div. Ent., Bul. 46, p. 43, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 617, 1914, *Megamelus.*
Localities: Quebec, Ont., N. H., Mass., N. Y., Pa., D. C., Miss., Ohio, Mich., Kans., Calif.

2774. **Liburnia furcata** (Prov.)

Provancher, Nat. Can., iv, p. 320, 1872, *Delphax.*
Provancher, Pet. Faune Ent. Can., iii, p. 225, 1889, *Delphax.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894; p. 248, 1897.
?Van Duzee, Can. Ent., xxxviii, p. 408, 1906; xliv, p. 325, 1912.
Localities: Quebec, Ont., N. H., N. Y.

2775. **Liburnia magna** (Crawf.)

Crawford, Proc. U. S. Natl. Mus., xlvi, p. 627, 1914, *Megamelus.*
Locality: Colo.

2776. **Liburnia detecta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 248, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 97, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
circumcincta Van Duzee, Bul. Buf. Soc. Nat. Sci., ix, p. 203, 1909.
Van Duzee, Can. Ent., xli, p. 128, 1909.
Van Duzee, Check List Hemip., p. 84, No. 2777, 1916.
Localities: Mass., N. Y. N. J., Ga., Fla. (Bermudas.)

(2777 see No. 2776.)

2778. **Liburnia tuckeri** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., x, p. 506, 1912.
Localities: Ga., Fla., Texas, Calif.

2779. **Liburnia foveata** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 257, 1897 (described).
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: N. Y., N. J.

2780. **Liburnia lutulenta** Van D.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 252, 1897 (described).
Osborn, Ohio Nat., iv, p. 100, 1904.
Swezey, U. S. Dept. Agr., Div. Ent., Bul. 46, p. 45, 1904.
Van Duzee, 20th Rept. N. Y. St. Ent., p. 553, 1905.
Slosson, Ent. News, xvii, p. 326, 1906.
Tucker, Kans. Univ. Sci. Bul., iv, p. 65, 1907.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 617, 1914, *Megamelus.*
Localities: Quebec, Ont., N. H., Mass., N. Y., Ohio, Minn., Kans., Colo.

2781. **Liburnia obscurella** (Bohm.)

Boheman, Kongl. Vet. Akad. Handl. for 1847, p. 53, *Delphax.*
Stål, Of. Vet. Akad. Forh., xi, p. 195, 1854, *Delphax.*
Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, pl. 8, fig. 29, 1866, *Delphax.*
Scott, Ent. Mo. Mag., vii, p. 28, 1870.
Sahlberg, Cicad., p. 443, 1871.
Fieber, Cicad. d'Eur., iv, p. 20, 1879.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 80.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894.

Melichar, Cicad. Mitt. Eur., p. 82, pl. 5, figs. 22, 23, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 60, 1896.
Localities: N. Y. (Europe.)

2782. **Liburnia magnistyla** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 627, 1914, *Megamelus.*
Locality: Ariz.

2783. **Liburnia hemiptera** (Germ.)
Germar, Mag. d. Ent., iii, p. 217, 1818, *Delphax.*
Stål, Of. Vet. Akad. Forh., xi, p. 193, 1854, *Delphax.*
Stål, Stet. Ent. Zeit., xix, p. 192, 1858, *Delphax.*
Ashmead, Harriman Alaska Exped., viii, p. 131, 1904, *Delphax.*
Localities: Alaska. (Europe.)
(This species is not recognized by Oshanin.)

2784. **Liburnia steinegeri** (Ashm.)
Ashmead, Fur Seals and Fur Seal Isds., iv, p. 340, 1899, *Delphax.*
Ashmead, Harriman Alaska Exped., viii, p. 130, 1904, *Delphax.*
Locality: Alaska.

2785. **Liburnia incerta** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 192, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 258, 1897.
Localities: N. Y., Ohio.

2786. **Liburnia magnifrons** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 614, 1914, *Megamelus.*
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech Bul., i, p. 248, 1916.
Localities: Colo., Calif.

2787. **Liburnia vanduzeei** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 622, 1914, *Megamelus.*
Locality: Mass.

2788. **Liburnia kormusi** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 614, 1914, *Megamelus.*
Locality: Nev.

2789. **Liburnia occlusa** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 256, 1897.
Osborn, Ohio Nat., iv, p. 100, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 619, 1914, *Megamelus.*
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.
Localities: Ohio, Calif.

2790. **Liburnia lineatipes** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 191, 1894 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 255, 1897 (described).
Osborn, Ohio Nat., iv, p. 100, 1904.
Van Duzee, Trans. San Diego Soc. Nat. Hist., ii, p. 45, 1914.
Localities: Ont., N. Y., Ohio, Calif.

2791. **Liburnia indistincta** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 619, 1914, *Megamelus.*
Locality: Colo.

2792. **Liburnia nigridorsum** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 620, 1914, *Megamelus.*
Weiss, Ent. News, xxvii, p. 215, 1917.
Localities: N. J., Colo.

2793. **Liburnia dolera** Spnr.
Spooner, Can. Ent., xliv, p. 240, 1912.
Locality: N. Y.

2794. **Liburnia nigrigaster** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 621, 1914, *Megamelus.*
Locality: Colo.

2795. **Liburnia gillettei** Van D.
Gillette and Baker, Hemip. Colo., p. 69, 1895 (nomen nudum).
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 258, 1897 (described).
Osborn, Ohio Nat. iv, p. 100, 1904.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 616, 1914, *Megamelus.*
Localities: Ohio, Colo., Wyo., Nev.

2796. **Liburnia albolineosa** Fowl.
Fowler, Biol. Centr. Am., Homop., i, p. 135, pl. 13, fig. 14, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 47, 1907; ix, p. 203, 1909.
Van Duzee, Can. Ent., xli, p. 128, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 610, 1914, *Megamelus.*
Localities: Fla. (Bermudas, West Indies, Mexico.)

2797. **Liburnia teapae** Fowl.
Fowler, Biol. Centr. Am., Homop., i, p. 135, pl. 13, fig. 13, 1905.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 46, 1907.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 618, 1914, *Megamelus.*
Localities: Fla. (West Indies, Mexico.)

2798. **Liburnia seminigra** (Stål)
Stål, Of. Vet. Akad. Forh., xi, p. 246, 1854, *Delphax.*
Stål, Freg. Eugen. Resa, Ins., p. 275, 1859, *Delphax.*
Stål, Rio Jan. Hemip., ii, p. 7, 1862, *Delphax.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 45, 1907; ix, p. 203, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Localities: Fla., Colo. (Neotropical.)

2799. **Liburnia analis** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 620, 1914, *Megamelus.*
Locality: Wis.

2800. **Liburnia andromeda** Van D.
Van Duzee, Bul. Buf. Soc. Nat. Sci., viii, No. 5, p. 46, 1907; ix, p. 203, 1909.
Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 628, 1914, *Megamelus.*
Localities: Pa., Fla. (Neotropical.)

2801. **Liburnia rotundata** (Crawf.)
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 618, 1914, *Megamelus.*
Locality: Ala.

2802. **Liburnia unicolor** (Walk.)

Walker, List Homop., ii, p. 354, 1851, *Delphax* (not of H. Sch.).
Locality: Canada.

[**Liburnia pumila** Van D. MS]

Barber, Bul. Am. Mus. Nat. Hist., xxxiii, p. 529, 1914.
Locality: Fla.
[Probably an early MS name for *puella* Van D.]

Genus **Dicranotropis** Fieb.
Logotype *hamata* (Boh.)

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866.
Sahlberg, Cicad., p. 469, 1871.
Fieber, Cicad. d'Eur., i, p. 9, 1875; pl. 8, 1876; iv, p. 82, 1879.
Mayr, Tabellen, p. 21, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 92.
Ashmead, Ent. Am., v, p. 27, 1889.
Melichar, Cicad. Mitt. Eur., pp. 51, 96, 1896.
Edwards, Hemip. Homop. Brit. Isds., p. 72, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 228, 240, 1897.
Oshanin, Kat. Palae. Hemip., p. 120, 1912 (names *hamata* type).
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 593, 1914 (part; names *beckeri*
Muir, Can. Ent., xlvii, p. 300, 1915. [pseudotype).

2803. **Dicranotropis luteivitta** (Walk.)

Walker, List Homop., ii, p. 354, 1851, *Delphax*.
Locality: "U. S."

Genus **Achorotile** Fieb.
Haplotype *albosignata* Dahlb.

Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866.
Scott, Ent. Mo. Mag., vii, p. 195, 1870.
Sahlberg, Cicad., p. 472, 1871 (as subgenus of *Ditropis*).
Fieber, Cicad. d'Eur., i, p. 92, 1875; ii, pl. 8, 1876; iv, p. 88, 1879.
Ashmead, Ent. Am., v, p. 27, 1889.
Melichar, Cicad. Mitt. Eur., pp. 51, 99, 1896.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, pp. 230, 259, 1897.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 578, 1914.
Muir, Can. Ent., xlvi, p. 297, 1915.

(2804 see No. 2717.)

2805. **Achorotile foveata** Spnr.

Spooner, Can. Ent., xliv, p. 241, 1912.
Locality: Calif.

Genus **Criomorphus** Curt.
Haplotype *albomarginatus* Curt.

Curtis, Ent. Mag., i, p. 195, 1833.
Kirkaldy, Haw. S. P. A., Exp. Sta. Bul., iii, p. 131, 1907. [Fieb.).
Stiroma Fieber, Verh. Zool.-Bot. Ges. Wien, xvi, p. 521, 1866 (type *affinis*
Fieber, Cicad. d'Eur., i, p. 93, 1875; ii, pl. 8, 1876; iv, p. 90, 1879.
Mayr, Tabellen, p. 21, 1884.
Edwards, Trans. Ent. Soc. Lond. for 1886, p. 93.
Melichar, Cicad. Mitt. Eur., pp. 51, 100, 1896.
Edwards, Hemip. Homop. Brit., Isds., p. 73, 1896.

Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 583, 1914.
Muir, Can. Ent., xlvii, p. 298, 1915.
Ditropis Fieber, Verh. Zool.-Bot. Ges. Wien, pl. 8, fig. 18, 1866.
Kirschbaum, Cicad. v. Wiesbd., p. 41, 1868.
[Muir considers *Eurybregma* distinct.]

2806. **Criomorphus inconspicuus** (Uhl.)
Uhler, Bul. U. S. Geol. Geog. Surv., iii, p. 458, 1877, *Stiroma.*
Gillette and Baker, Hemip. Colo., p. 70, 1895, *Stiroma.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897, *Stiroma.*
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 583, 1914, *Jassideus.*
Localities: N. Y.(?), Colo.

Genus **Pentagramma** Van D.
Orthotype *vittatifrons* Uhl.
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 565, 1914.

2807. **Pentagramma vittatifrons** (Uhl.)
Uhler, Bul. U. S. Geol. Geog. Surv., i, p 351, 1876; iv, p 510, 1878, *Liburnia.*
Uhler, Stand. Nat. Hist., ii, p. 241, 1884, *Liburnia.*
Osborn and Ball, Proc. Ia. Acad. Sci., iv, p. 233, 1896, *Liburnia.*
Van Duzee, Bul. Buf. Soc. Nat. Sci., v, p. 260, 1897.
Osborn, Proc. Ia. Acad. Sci., v, p. 235, 1897.
Smith, Cat. Ins. N. J., edn. 3, p. 98, 1910.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 567, 1914.
Localities: Mass., N. Y., N. J., Md., Ill., Ia., Dak., Mont.

2808. **Pentagramma minore** Crawf.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 567, 1914.
Locality: Wyo.

SECTION *HYMENELYTRATA* Fall.
Fallén, Spec. Nova Hemip., Disp. Meth. Exhib., p. , 1814.
Latreille, Fam. Nat. Règne Animal, p. 428, *Hemelytra.*
Fallén, Hemip. Suec., Cimic., preface, 1829.

SERIES *STERNORHYNCHA* (A. & S.)
Amyot and Serville, Hémip., pp. lxvi, 588, 1843, *Sternorhynchi.* (Section.)
Fieber, Genera Hydrocoridum, p. 10, 1851.
Flor, Rhyn. Livl., ii, pp. 5, 436, 1861.
Provancher, Pet. Faune Ent. Can., iii, p. 302, 1890, *Sternorhynques.*
Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907. (Section.)
Oshanin, Kat. Palae. Hemip., p. 125, 1912.
Van Duzee, Check List Hemip., p. 85, 1896. (Section.)
Phytothelga Dumeril, Zool. Analyt., p. , 1906.
Dimera Westwood, Intr. Mod. Classif. Ins., ii, p. 434, 1840.
Kirkaldy, Fauna Hawai., iii, p. 113, 1902. (Tribe.)

SUBSERIES *PHYTOPHTHIRES* Burm.
Burmeister, Handb. d. Ent., ii, pp. 55, 84, 1835.
Walker, List Homop., iv, p. 909, 1852.
Flor, Rhyn. Livl., ii, pp. 5, 436, 1861.
Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907.
Aphidiens Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 224, 1829.

Family **CHERMIDAE** (Fall.)

Fallén, Spec. Nova Hemip. Disp. Meth. Exhib., p. , 1814, *Chermides.*
Billberg, Enum. Ins. Coll. Billbg., p. , 1820, *Chermides.*
Kirkaldy, Entomol., xxxvii, p. 255, 1904.
Kirkaldy, Fauna Hawai., ii, p. 598, 1910.
Van Duzee, Check List Hemip., p. 85, 1916.

Psyllidae Latreille, Genera Crust. Ins., iii, p. 168, 1807.
Latreille, Consid. Gén., pp. 264, 434, 1810.
Latreille, Fam. Nat. Règne Animal, p. 428, 1825, *Psyllides.*
Burmeister, Handb. d. Ent., ii, p. 95, 1835, *Psyllodes.*
Blanchard, Hist. des Ins., Hémip., p. 201, 1840, *Psylliens.*
Westwood, Intr. Mod. Classif. Ins., ii, p. 435; Synop., p. 117, 1840.
Hartig, Germar's Zeit. f. Ent., iii, p. 370, 1841, *Psyllodes.*
Amyot and Serville, Hémip., pp. lxvi, 590, 1843, *Psyllides.*
Walker, List Homop., iv, p. 909, 1852.
Dohrn, Cat. Hemip., p. 94, 1859.
Flor, Rhyn. Livl., ii, p. 438, 1861, *Psyllodea.*
Scott, Trans. Ent. Soc. Lond. for 1876, p. 526 (monograph British
Thomas, 8th Rept. Ill. St. Ent., p. 12, 1879. [species).
Uhler, Stand. Nat. Hist., ii, p. 223, 1884.
Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Psyllides.*
Provancher, Pet. Faune Ent. Can., iii, p. 302, 1890.
Kirkaldy, Faune Hawai., iii, p. 113, 1902.
Oshanin, Verz. Palae. Hemip., ii, p. 338, 1907.
Patch, Ann. Ent. Soc. Am., ii, p. 117, 1909 (venation).
Crawford, Pomona Jl. Ent., ii, p. 228, 1910; iii, p. 480, 1911.
Oshanin, Kat. Palae. Hemip., p. 125, 1912.
Aulmann, Psyllidarum Catalogus, Berlin, 1913 (catalogue world species).
Crawford, U. S. Natl. Mus., Bul. 85, 1914 (monograph Am. species).

Subfamily **LIVIINAE** Löw

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 606, 1878.
Scott, Trans. Ent. Soc. Lond. for 1882, p. 462, *Livillinae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Liviaria.*
Edwards, Hemip. Homop. Brit. Isds., p. 227, 1896, *Liviidae.*
Oshanin, Kat. Palae. Hemip., p. 125, 1912, *Liviaria.* (Tribe.)
Aulmann, Psyllid. Cat., p. 75, 1913.
Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.

TRIBE *LIVIINI* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.

Genus **Livia** Latr.

Haplotype *juncorum* (Linn.)

Latreille, Hist. Nat. Crust. Ins., iii, p. 266, 1802 (*juncorum* only species).
Latreille, Hist. Nat. Crust. Ins., xii, p. 374, 1804.
Latreille, Genera Crust. Ins., iii, p. 170, 1807.
Latreille, Consid. Gén., pp. 265, 434, 1810 (names *juncorum* type).
Latreille, *in* Cuvier, Règne Animal, iii, p. 410, 1817 (no species mentioned).
Latreille, *in* Cuvier, Règne Animal, edn. 2, v. 225, 1829.

Leach, *in* Brewster's Edinbg. Encyc., Am. edn., viii, p. 714, 1832.
Curtis, Brit. Ent., vi, pl. 492, 1834.
Burmeister, Handb. d. Ent., ii, p. 96, 1835.
Blanchard, Hist. des Ins., Hémip., p. 202, 1840.
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 117, 1840.
Hartig, *in* Germar's Zeit. f. Ent., iii, p. 375, 1841.
Amyot and Serville, Hémip., p. 596, 1843.
Walker, List Homop., iv, p. 909, 1852.
Flor, Rhyn. Livl., ii, p. 540, 1861.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 565.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 606, 1878.
Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.
Edwards, Hemip. Homop. Brit. Isds., p. 227, 1896.
Crawford, U. S. Natl. Mus., Bul. 85, p. 19, 1914.

Diraphia Illiger, Mag. d. Insektk., i, p. 284, 1802 (nomen nudum?).
Waga, Ann. Soc. Ent. Fr., xi, p. 275, 1842 (characterized). Haplotype [*limbata* Waga.
Amyot and Serville, Hémip., p. 596, 1843.
Walker, List Homop., iv, p. 911, 1852.
Thomas, 8th Rept. Ill. St. Ent., p. 13, 1879.

2809. **Livia coloradensis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 20, 1914 (figures).
Host: (?)
Localities: Ark., Colo.

2810. **Livia maculipennis** (Fh.)

Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858), *Diraphia.*
Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia.*
Riley, Proc. Biol. Soc. Wash., ii, p. 68, 1884.
Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.
Patch, Psyche, xix, p. 6, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 21, 1914 (figures).
Patch, Psyche, xxiii, p. 21, 1916 (gall on Juncus).

bifasciata Provancher, Pet. Faune Ent. Can., iii, p. 308, 1890.
Hosts: Juncus, Pinus, Caltha.
Localities: Quebec, N. H., Mass., N. Y., N. J., Pa., D. C., Ala.

2811. **Livia marginata** Patch

Patch, Psyche, xix, p. 8, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 21, 1914.
Host: (?)
Localities: N. H., Conn.

2812. **Livia vernalis** Fh.

Fitch, Homop. N. Y. St. Cab., p. 64, 1851.
Walker, List. Homop., iv, p. 910, 1852.
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 739, 1857 (1858), *Diraphia.*
Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia.*
Riley, Proc. Biol. Soc. Wash., ii, p. 68, 1884.
Packard, 5th Rept. U. S. Ent. Comm., p. 803, 1890, *Diraphia.*
Gillette and Baker, Hemip. Colo., p. 115, 1895.
Snow, Kans. Univ. Sci. Bul., ii, p. 350, 1904 (mention).

Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.
Patch, Psyche, xix, p. 7, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 22, 1914 (figures).
Weiss, Ent. News, xxvii, p. 163, 1916.
femoralis Fitch, Homop. N. Y. St. Cab., p. 64, 1851.
Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858), *Diraphia.*
Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia.*
calamorum Fitch, Trans. N. Y. St. Agr. Soc., xvii, p. 740, 1857 (1858),
Thomas, 8th Rept. Ill. St. Ent., p. 14, 1879, *Diraphia.* [*Diraphia.*
saltatrix Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.
Hosts: Pinus, Calamus.
Localities: Quebec, Conn., N. Y., N. J., Pa., D. C., Va., Mich., La., Colo., Ariz.

2812½. **Livia viridescens** (Prov.)

Provancher, Nat. Can., iv, p. 379, 1872, *Diraphia.*
Host: (?)
Locality: Quebec.

2813. **Livia caricis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 23, 1914 (figures).
Host: Carex.
Localities: Me., Pa., Ill., Colo., N. Mex., Utah, Calif., Ore., Brit. Col.

TRIBE *APHALARINI* (Löw)

Löw, Verh. Zool.-Bot. Ges. Wien, xviii, p. 605, 1878, *Aphalarinae.*
Puton, Cat. Hémip. Palae., edn. 3, p. 90, 1886, *Aphalararia.*
Edwards, Hemip. Homop. Brit. Isds., p. 22, 1896, *Aphalaridae.*
Kuwayama, Trans. Sapporo Nat. Hist. Soc., ii, p. 15, 1907.
Oshanin, Kat. Palae. Hemip., p. 126, 1912, *Aphalararia.*
Aulmann, Psyllid. Cat., p. 61, 1913, *Aphalarinae.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 24, 1914.

Genus **Aphalara** Först.
Logotype *calthae* (Linn.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67, 1848.
Walker, List Homop., iv, p. 929, 1852 (listed).
Flor, Rhyn. Livl., ii, p. 530, 1861.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 559.
Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 607, 1878; xxxii, p. 3, 1882.
Edwards, Hemip. Homop. Brit. Isds., p. 229, 1896.
Crawford, Pomona Jl. Ent., iii, p. 492, 1911. (Key.)
Crawford, U. S. Natl. Mus., Bul. 85, p. 24, 1914. (Key.)

Subgenus **Aphalara** Först.

Crawford, U. S. Natl. Mus., Bul. 85, p. 25, 1914 (implied).

2814. **Aphalara exilis** (W. & M.)

Weber and Mohr, Naturh. Reise d. eine Theil Schwedens, p. 65, pl. 1, fig. 2, [1804, *Tettigonia.*
Fallén, Hemip. Suec., Cicad., p. 80, 1826, *Chermes.*
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 89, 1848.
Flor, Rhyn. Livl., ii, p. 532, 1861.

Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 560, pl. 9, fig. 10.
Thomson, Opusc. Ent., viii, p. 840, 1877.
Douglas, Ent. Mo. Mag., xv, p. 255, 1879 (mention).
Strand, Ent. Tidskr., xxiii, p. 270, 1902.
rumicis, Boheman, Vet. Akad. Handl. for 1850, p. 177, *Psylla*.
Reuter, Medd. Fauna Flora Fenn., i, p. 72, 1876, *Psylla*.
Hosts: Rumex, Pinus.
Localities: "E. St." (Europe.)

2815. **Aphalara calthae** (Linn.)

Linnaeus, Fauna Suec., edn. 2, p. 263, no. 1005, 1761, *Chermes*.
Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1867, *Chermes*.
Fabricius, Syst. Ent., p. 741, 1775, *Chermes*.
Goeze, Ent. Beytr., ii, p. 321, 1778, *Chermes*.
Gmelin, *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.
Fabricius, Ent. Syst., iv, p. 222, 1794, *Chermes*.
Fabricius, Syst. Rhyng., p. 304, 1803, *Chermes*.
Blanchard, Hist. des Ins., Hémip., p. 210, 1840, *Chermes*.
Walker, List Homop., iv, p. 921, 1852, *Psylla?*
Thomson, Opusc. Ent., viii, p. 840, 1877.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 233, 1882; xxxvi, p. 149, 1886.
Edwards, Hemip. Homop. Brit. Isds., p. 232, 1896.
Crawford, Pomona Jl. Ent., iii, p. 495, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 27, 1914 (figures).
polygoni Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 90, 1848.
Flor, Rhyn. Livl., ii, p. 534, 1861.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 561.
Douglas, Ent. Mo. Mag., xv, p. 255, 1879 (mention).
Mally, Proc. Ia. Acad. Sci., ii, pl. 15, figs. 1–3, 1895 (larvae).
Patch, Me. Agr. Exp. Sta., Bul. 195, p. 235, 1911; Bul. 202, p. 216, 1912.
ulicis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
Hosts: Caltha, Rumex, Polygonum, Ulex, Pinus.
Localities: Me., Mass., D. C., Ill., Ia., La., Wyo., Colo., Utah, N. Mex., Calif., Ore., Wash. (Cuba, Mexico, Europe.)

2815½. **Aphalara nubifera** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 216, 1912.
Host: Sisymbrium.
Locality: Colo.

2816. **Aphalara ‖rumicis** Mally

Mally, Proc. Ia. Acad. Sci., ii, p. 166, 1895 (as var. of *exilis*).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 29, 1914 (figures).
†*maculipennis* Crawford, Pomona Jl. Ent., iii, p. 496, 1911.
[Probably identical with *maculipennis* Löw as suggested by Crawford; if not Mally's name is preoccupied by *rumicis*. Boheman and must be changed.]
Hosts: Rumex, Sophia.
Localities: Ia., Mo., Wyo., Colo., Texas, Calif., Ore.

2817. **Aphalara artemisiae** Först.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.
Flor, Rhyn. Livl., ii, p. 537, 1861.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
Scott, Ent. Mo. Mag., xiii, p. 67, 1876; p. 282, 1877.
Thomson, Opusc. Ent., viii, p. 841, 1877.
Edwards, Ent. Mo. Mag., xliv, p. 86, 1908.
Crawford, Pomona Jl. Ent., ii, p. 496, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 29, 1914.
malachitica Dahlbom, Kong. Vet. Akad. Handl. for 1850, p. 177, *Psylla*.
Host: Artemisia.
Localities: Colo., Utah. (Europe.)

2818. **Aphalara angustipennis** Crawf.

Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (as var. of *artemisiae*).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 218, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 30, 1914 (figures).
Host: Artemisia.
Localities: Md., S. D., Colo., Utah, Calif., Ore., Wash.

2819. **Aphalara viridis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 30, 1914.
Host: (?)
Locality: Ariz.

2820. **Aphalara pinicola** Crawf.

Crawford, U. S. National Mus., Bul. 85, p. 31, 1914.
Host: Pinus.
Locality: Calif.

2821. **Aphalara suaedae** Crawf.

Cockerell, Am. Nat., xxxiv, p. 290, 1900 (*A. suedae* Schw. MS).
Crawford, U. S. Natl. Mus., Bul. 85, p. 31, fig. 110, 1914 (described).
Host: Suaeda.
Localities: N. Mex., Calif.

2822. **Aphalara veaziei** Patch

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 16, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 31, 1914 (figures).
communis Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (figures).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 218, 1912.

a. var. **metzaria** Crawf.

Crawford, Pomona Jl. Ent., iii, p. 499, 1911 (as var. of *communis*).
Host: Aster.
Localities: Ont., Md., D. C., Va., W. Va., Wis., S. D., Neb., Wyo., Colo., Utah, Texas, Ariz., Calif., Wash.

2823. **Aphalara caudata** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914.
Host: (?)
Locality: Calif.

2824. **Aphalara pulchella** Crawf.

Crawford, Pomona Jl. Ent., iii, p. 500, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914 (figures).
Host: (?)
Locality: Calif.

2825. **Aphalara picta** (Zett.)

Zetterstedt, Fauna Lapp., p. 553, 1828, *Chermes.*
Zetterstedt, Ins. Lapp., column 308, 1840, *Chermes.*
Flor, Rhyn. Livl., ii, p. 539, 1861.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 563, pl. 9, fig. 9.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, pl. 2, figs. 36–40, 1876; xxix, p. 562,
Reuter, Ent. Tidskr., ii, p. 15, 1881 (in Swedish). [pl. 15, figs. 14, 15, 1879.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 256, 1882; xxxvi, p. 150, 1886.
Edwards, Hemip. Homop. Brit. Isds., p. 230, 1896.
Crawford, Pomona Jl. Ent., iii, p. 501, 1911.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912 (note).
Crawford, U. S. Natl. Mus., Bul. 85, p. 33, 1914 (figures).
flavipennis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 89, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
Löw, Verh. Zool.-Bot. Ges. Wien, xxiii, p. 141, 1873.
sonchi Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 96, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
alpigena Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 402, 1871.
†*nervosa* Thomson, Opusc. Ent., viii, p. 840, 1877.
Hosts: Chrysanthemum, Leontodon, Hypochaeris.
Localities: Mo., Colo. (Europe.)

2826. **Aphalara fascipennis** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 217, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 34, 1914.
Host: (?)
Localities: Ont., N. H., Mass., N. Y.

2827. **Aphalara alaskensis** Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 136, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 35, 1914 (figures).
Host: (?)
Localities: Colo., Wash., Alaska.

2828. **Aphalara schwarzi** Ashm.

Ashmead, Harriman Alaska Exped., viii, p. 135, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914 (noticed).
Aphalara sp. Schwarz, Proc. Wash. Acad. Sci., ii, p. 539, 1900.
Host: (?)
Locality: Alaska.

2829. **Aphalara nebulosa** (Zett.)

Zetterstedt, Fauna Lapp., p. 551, 1828, *Chermes.*
Zetterstedt, Ins. Lapp., column 307, 1840, *Chermes.*
Reuter, Medd. Soc. Fauna Flora Fenn., i, pp. 73, 77, 1876.
Löw, Verh. Zool.-Bot. Ges. Wien, xxix, p. 566, 1879.
Reuter, Ent. Tidskr., ii, p. 152, 1881 (in Swedish).

Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 283, 1882.
Scott, Ent. Mo. Mag., xviii, p. 275, 1882; xix, pp. 14, 42, 1882.
Edwards, Hemip. Homop. Brit. Isds., p. 231, pl. 26, fig. 3, 1896.

a. var. **kincaidi** Ashm.
Ashmead, Harriman Alaska Exped., viii, p. 136, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914 (figures).
americana Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (as variety).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 219, 1912 (noticed).
Host: Epilobium.
Localities: Colo., Calif., Wash., Alaska.
[The typical form European, not yet found here.]

Subgenus **Anomocera** Crawf.
Orthotype *minutissima* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 36, 1914.

2830. **Aphalara minutissima** Crawf.
Crawford, Pomona Jl. Ent., iii, p. 500, 1911 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 37, 1914 (figures).
Host: Artemisia.
Localities: Neb., Utah, Nev., Calif.

2831. **Aphalara anomala** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 37, 1914.
Host: (?)
Locality: Calif.

Genus **Aphalaroida** Crawf.
Orthotype *pithecolobia* Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 38, 1914.

2832. **Aphalaroida pithecolobia** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 39, 1914 (figures).
Host: Pithecolobium.
Locality: Texas.

2833. **Aphalaroida spinifera** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 40, fig. 399, 1914.
Hosts: Prosopis, Phorodendron.
Localities: Ariz., Calif.

2834. **Aphalaroida prosopis** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 40, fig. 404, 1914.
Host: Prosopis.
Locality: Ariz.

2835. **Aphalaroida inermis** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 41, fig. 398, 1914.
Hosts: Prosopis, Mimosa.
Localities: Texas, Ariz., Calif.

2836. **Aphalaroida acaciae** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 41, fig. 397, 1914.
Hosts: Acacia, Phorodendron.
Localities: Texas, Calif.

Subfamily **PAUROPSYLLINAE** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 42, 1914.

Genus **Paurocephala** Crawf.
Orthotype *psylloptera* Crawf.

Crawford, Phil. Jl. Sci., viii, sec. D, p. 293, 1913.
Crawford, U. S. Natl. Mus., Bul. 85, p. 42, 1914.

2837. **Paurocephala ilecis** (Ashm.)

Ashmead, Can. Ent., xiii, p. 225, 1883, *Psylla*.
Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884, *Aphalara* (*ilicis*).
Crawford, Pomona Jl. Ent., iii, p. 632, 1911, *Psyllopa* (*ilicis*).
Crawford, U. S. Natl. Mus., Bul. 85, p. 43 (figures), 1914 (*ilicis*).
Host: Ilex.
Localities: Ga., Fla.

Genus **Heteropsylla** Crawf.
Orthotype *texana* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 44, 1914.

2838. **Heteropsylla texana** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 45, 1914 (figures).
Hosts: Pithecolobium, Sphaeralcea, Monarda, Chrysopsis, Acacia, Tamarix, Celtis, Prosopis.
Localities: Kans., Colo., Texas, Ariz.

2839. **Heteropsylla mimosae** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 48, 1914.
Host: Mimosa.
Locality: Texas.

Genus **Calophya** Löw
Haplotype *rhois* Löw

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 598, 608, 1878.
Schwarz, Proc. Ent. Soc. Wash., vi, p. 240, 1904.
Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 162, 1905.
Crawford, U. S. Natl. Mus., Bul. 85, p. 49, 1914.

2840. **Calophya californica** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 242, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 50, 1914 (figures).
Host: Rhus integrifolia.
Locality: Calif.

2841. **Calophya flavida** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 243, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 50, fig. 419, 1914.
Host: Rhus glabra.
Localities: Mass., D. C., Mo.

2842. **Calophya dubia** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 51, fig. 420, 1914.
Host: (?)
Locality: Colo.

2843. **Calophya triozomina** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 241, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 52, 1914 (figures).

a. var. **claripennis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 52, 1914.
Host: Rhus trilobata.
Localities: Colo., Ariz., Calif.

2844. **Calophya nigripennis** Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884 (n.n. for *rhois* Glover).
Schwarz, Proc. Ent. Soc. Wash., vi, p. 244, 1904 (described).
Crawford, U. S. Natl. Mus., Bul. 85, p. 53, 1914 (figures).
†*rhois* Glover, U. S. Dept. Agr., Rept. for 1876, p. 33, 1877, *Psylla.*
Host: Rhus copallina.
Localities: Pa., D. C., Va., N. C., Ga.

[**Calophya vitreipennis** Riley MS]

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (name only).
Locality: Ariz.

Subfamily CHERMINAE Van D.

Van Duzee, Check List Hemip., p. 86, 1916 (n.n. for *Carsidarinae* Crawf.).
Prionocnemidae Scott, Trans. Ent. Soc. Lond. for 1882, p. 466.
Scott, Proc. Linn. Soc. N. S. Wales, xxvi, p. 286, 1901, *Prionocneminae.*
Kieffer, Zeit. f. Wissen. Ins. Biol., ii, p. 387, 1906, *Prionocneminae.*
Phacosemini Kieffer, Zeit. f. Wissen. Ins. Biol., ii, p. 387, 1906.
Carsidarinae Crawford, Pomona Jl. Ent., iii, p. 481, 1911 (n.n. for *Prionoc-*
Crawford, U. S. Natl. Mus., Bul. 85, pp. 18, 53, 1914. [*nemidae* Scott).
Ciriacreminae Aulmann, Psyllid. Cat., p. 79, 1913 (part).

Genus **Rhinopsylla** Riley
Haplotype *schwarzii* Riley

Riley, Proc. Biol. Soc. Wash., ii, p. 77, 1884.
Crawford, Pomona Jl. Ent., iii, pp. 440, 483, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 59, 1914.

2845. **Rhinopsylla schwarzii** Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 77, 1884.
Crawford, Pomona Jl. Ent., iii, p. 441, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 59, 1914.
Host: (?)
Locality: Fla

2846. **Rhinopsylla athenae** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 60, 1914 (figures).
Host: (?)
Locality: Ga.

2847. **Rhinopsylla antennata** Crawf.

Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, pp. 441, 491, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 61, 1914 (figures).

a. var. **proxima** Crawf.
Crawford, Pomona Jl. Ent., iii, p. 491, 1911 (name only).
Crawford, U. S. Natl. Mus., Bul. 85, p. 62, 1914.
Host: (?)
Locality: Colo.

Subfamily TRIOZINAE (Put.)
Puton, Cat. Hémip. Palae., edn. 2, p. 91, 1875, *Triozaria.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 609, 1879.
Puton, Cat. Hémip. Palae., edn. 3, p. 93, 1886, *Triozaria.*
Edwards, Hemip. Homop. Brit. Isds., p. 250, 1896, *Triozidae.*
Kuwayama, Trans. Sapporo Nat. Hist. Soc., iii, p. 53, 1908.
Crawford, Pomona Jl. Ent., ii, pp. 228, 347, 1910; iii, p. 422, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 64, 1914.

Genus **Kuwayama** Crawf.
Orthotype *medicaginis* Crawf.

Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *Epitrioza* Crawf.).
Crawford, U. S. Natl. Mus., Bul. 85, p. 65, 1914.
‖*Epitrioza* Crawford, Pomona Jl. Ent., iii, p. 452, 1911.

2848. **Kuwayama medicaginis** (Crawf.)
Crawford, Pomona Jl. Ent., ii, p. 229, 1910, *Paratrioza.*
Crawford, Pomona Jl. Ent., iii, p. 452, 1911, *Epitrioza.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 66, 1914 (figures).
Host: Medicago.
Localities: N. Mex. (not Colo.), Calif.

2849. **Kuwayama dorsalis** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 67, fig. 415, 1914.
Host: (?)
Locality: Ariz.

Genus **Leuronota** Crawf.
Orthotype *maculata* (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 67, 1914.

2850. **Leuronota maculata** (Crawf.)
Crawford, Pomona Jl. Ent., ii, p. 349, 1910, *Trioza.*
Crawford, Pomona Jl. Ent., iii, p. 446, 1911, *Allotrioza* (mention).
Crawford, U. S. Natl. Mus., Bul. 85, p. 68, 1914 (figures).
Hosts: Condalia, Colubrina.
Localities: Texas, Ariz.

2851. **Leuronota longipennis** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 69, 1914 (figures).
Host: (?)
Locality: Fla.

Genus **Paratrioza** Crawf.
Logotype *ocellata* Crawf. = *cockerelli* (Sulc.)

Crawford, Pomona Jl. Ent., ii, pp. 228, 229, 1910.
Crawford, Pomona Jl. Ent., iii, p. 446, 1911 (names *ocellata* type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 70, 1914. [*arbolensis* Crawf.).
Allotrioza Crawford, Pomona Jl. Ent., iii, pp. 423, 442, 1911 (orthotype

2852. **Paratrioza cockerelli** (Sulc.)

Sulc, Acta Soc. Ent. Bohemiae, vi, p. 102, 1909, *Trioza*.
Crawford, Pomona Jl. Ent., iii, p. 448, 1911.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 71, 1914 (figures).
pulchella Crawford, Pomona Jl. Ent., ii, p. 229, 1910.
ocellata Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, pp. 447, 628, 1911.
nigra Crawford, Pomona Jl. Ent., iii, p. 448, 1911.
flava Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 448, 1911.
Hosts: Capsicum, Solanum, Purshia, Thuja, Picea, Pinus, Medicago.
Localities: Colo., Utah, N. Mex., Ariz., Calif.

2853. **Paratrioza arbolensis** Crawf.

Crawford, Pomona Jl. Ent., ii, p. 229, 1910.
Crawford, Pomona Jl. Ent., iii, p. 444, 1911, *Allotrioza*.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912, *Allotrioza* (mention).
Crawford, U. S. Natl. Mus., Bul. 85, p. 72, 1914 (figures).
Host: Shepherdia.
Locality: Colo.

2854. **Paratrioza maculipennis** (Crawf.)

Crawford, Pomona Jl. Ent., ii, pp. 230, 237, 1910, *Trioza*.
Crawford, Pomona Jl. Ent., iii, p. 450, fig. 153, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 73, fig. 392, 1914.
Hosts: Ceanothus, Convolvulus.
Locality: Calif.

Genus **Trioza** Först.
Logotype *urticae* (Linn.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67, 1848.
Flor, Rhyn. Livl., ii, p. 484, 1861.
Frauenfeld, Verh. Zool.-Bot. Ges. Wien, xvii, p. 804, 1867 (venation figured).
Scott, Trans. Ent. Soc. Lond. for 1876, p. 551.
Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 609, 1879.
Edwards, Hemip. Homop. Brit. Isds., p. 253, 1896. [Am. species.)
Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 423, 1911. (Keys to
Oshanin, Kat. Palae. Hemip., p. 128, 1912 (names *urticae* type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 74, 1914. (Key.) [nudum).
Phylloplecta Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen

2855. **Trioza bakeri** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 230, 235, figs. 98, 99, 1910; iii, p. 424, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 77, 1914.
montana Crawford, Pomona Jl. Ent., iii, p. 631, 1911.
Host: Pinus.
Locality: Calif.

2856. **Trioza breviantennata** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 78, 1914 (figures).
Host: (?)
Locality: Calif.

2857. **Trioza diospyri** (Ashm.)

Ashmead, Can. Ent., xiii, p. 222, fig. 12, 1881, *Psylla*.
Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).

Forbes, 14th Rept. Ill. St. Ent., p. 99, 1885.
Crawford, Pomona Jl. Ent., ii, p. 352, 1910 (figures).
Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.
Crawford, Pomona Jl. Ent., iii, p. 424, 1911.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 226, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 78, 1914 (figures).
latipennis Crawford, Pomona Jl. Ent., ii, p. 230, 1910.
Host: Diospyros.
Localities: Va., Ga., Fla., Texas.

2858. **Trioza collaris** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 229, 347, 1910 (figures).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 81, 1914 (figures).
Host: (?)
Locality: Calif.

2859. **Trioza longistylus** Crawf.

Crawford, Pomona Jl. Ent., ii, p. 233, 1910; iii, pp. 424, 434, 1911 (figures).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 227, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 82, 1914 (figures).
Host: (?)
Locality: Colo.

2860. **Trioza quadripunctata** Crawf.

Crawford, Pomona Jl. Ent., ii, p. 233, 1910; iii, pp. 425, 433, 1911 (figures).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 229, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 82, 1914 (figures).
Host: (?)
Localities: N. Y., Colo., Mont., Calif.

2861. **Trioza albifrons** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 231, 355, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 426, 438, 1911 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 83, 1914 (figures).
rotundipennis Crawford, Pomona Jl. Ent., ii, pp. 231, 236, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 1911 (figures).
Host: Urtica.
Localities: Mont., Calif.

2862. **Trioza urticae** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes.*
Linnaeus, Fauna Suec., edn. 2, p. 263, No. 1006, 1761, *Chermes.*
Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes.*
DeGeer, Mémoires, iii, p. 134, pl. 9, figs. 17, 18, 19, 1773, *Chermes.*
Fabricius, Syst. Ent., p. 741, 1775, *Chermes.*
Goeze, Ent. Beytr., ii, p. 322, 1778, *Chermes.*
Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes.*
Retzius, Genera et. Spec. Ins., p. 79, 1783, *Chermes.*
Fabricius, Mant. Ins., ii, p. 318, 1787, *Chermes.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes.*
Fabricius, Ent. Syst., iv, p. 222, 1894, *Chermes.*
Fabricius, Syst. Rhyng., p. 304, 1803, *Chermes.*

Zetterstedt, Fauna Lapp., 1828, *Chermes.*
Burmeister, Handb. d. Ent., ii, p. 98, 1835, *Psylla.*
Zetterstedt, Ins. Lapp., column 308, 1840, *Chermes.*
Blanchard, Hist. Nat. des Ins., Hémip., p. 202, 1840, *Psylla.*
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
Walker, List Homop., iv, p. 924, 1852.
Flor, Rhyn. Livl., ii, p. 505, 1861.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 386, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 553, pl. 9, fig. 2.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 141, 1877.
Scott, Ent. Mo. Mag., xvii, p. 278, 1880.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 253, 1882; xxxviii, p. 23, 1888.
Edwards, Hemip. Homop. Brit. Isds., p. 256, 1896.
Crawford, U. S. Natl. Mus., Bul. 85, p. 84, 1914 (notice).

eupoda Hartig *in* Germar's Zeit. f. Ent., iii, p. 374, 1841, *Psylla.*
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.

protensa Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 82, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.

forcipata Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 84, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 389, 1871.

crassinervis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 83, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 387, 1871.

bicolor Meyer–Dür, Mitth. Schw. Ent. Ges., iii, pp. 389, 391, 1871.
Host: Urtica.
Localities: "E. St." (Europe.)

2863. **Trioza frontalis** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 230, 353, 1910 (figures); iii, p. 426, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 84, 1914 (figures).

similis Crawford, Pomona Jl. Ent., ii, pp. 231, 352, 1910 (figures).

fovealis Crawford, Pomona Jl. Ent., ii, p. 233, 1910. [*similis*).
Crawford, Pomona Jl. Ent., iii, pp. 426, 438, 1911 (figures; as var. of

a. var. **sulcata** Crawf.
Crawford, U. S. Natl. Mus., Bul. 85, p. 85, 1914.
Host: Amelanchier.
Localities: Colo., Calif.

2864. **Trioza albiventris** Först.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 84, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1871.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 558, pl. 9, fig. 5.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877; xxix, p. 582, 1879.
Löw, Wien, Ent. Zeit., i, p. 214, 1882.
Edwards, Hemip. Homop. Brit. Isds., p. 254, pl. 28, fig. 9, 1896.

sanguinosa Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 85, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1877.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877.

vitreipennis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 98, 1848.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 388, 1877.

hypoleuca Thomson, Opusc. Ent., viii, p. 828, 1877.
Hosts: Salix, Betula, Pinus.
Localities: "S. St." (Europe.)

2865. **Trioza obtusa** Patch

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 18, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 85, 1914.
Host: Amelanchier.
Localities: Me., Md., D. C.

2866. **Trioza lobata** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 86, 1914 (figures).
Host: Ceanothus.
Localities: Ariz., Calif.

2867. **Trioza tripunctata** (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*.
Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla*.
Riley, Am. Ent., iii, p. 62, note, 1880, *Psylla*.
Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Phylloplecta* (mention).
Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).
Löw, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 163, 1888 (synonomy).
Riley *in* Lintner, 9th Rept. N. Y. St. Ent., p. 411, 1893 (mention).
Mally, Proc. Ia. Acad. Sci., ii, p. 154, 1895 (mention).
Van Duzee, 20th Rept. N. Y. St. Ent., p. 556, 1905.
Smith, Cat. Ins. N. J., edn. 3, p. 110, 1910.
Crawford, Pomona Jl. Ent., ii, pp. 231, 232, 1910; iii, pp. 424, 429, 430, 1911
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 230, 1912. [(figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 87, 1914 (figures).
rubi Walsh and Riley, Am. Ent., i, p. 225, 1869, *Psylla*.
Thomas, 8th Rept. Ill. St. Ent., p. 17, 1879, *Psylla*.
Fuller, Am. Ent., iii, p. 62, 1880, *Psylla*. [*Psylla*.
§*tripuncta* Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 805, 1890,
Hosts: Rubus, Pinus.
Localities: Ont., Me., N. H., N. Y., N. J., D. C., Va., Fla.
[This is not *Trioza tripunctata* Löw, 1877]

2868. **Trioza arizonae** Aulm.

Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *marginata* Crawf.).
Aulmann, Psyllid. Cat., p. 39, 1913.
Crawford, U. S. Natl. Mus., Bul. 85, p. 88, 1914 (figures).
‖*marginata* Crawford, Pomona Jl. Ent., ii, pp. 232, 356, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 424, 427, 1911.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 228, 1912 (figures).
Host: (?)
Locality: Ariz.

2869. **Trioza maura** Först.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 94, 1848.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 387, 1871.
Löw, Wien. Ent. Zeit., i, p. 214, 1882.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 242, 1882.
Sulc, Sitz-Ber. Bohm. Ges. Wissen., v, p. 10, 1911 (figures).

Patch, Me. Agr. Exp. Sta., Bul., p. 228, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 89, 1914 (figures).
helvetina Meyer-Dür, Mitth. Schw. Ent. Ges., iii, pp. 388, 391, 1871.
nigrifrons Crawford, Pomona Jl. Ent., ii, pp. 230, 351, 1910 (figures).
fulvida Crawford, Pomona Jl. Ent., ii, pp. 231, 358, 1910 (figures).
‖*similis* Crawford, Pomona Jl. Ent., ii, pp. 231, 359, 1910 (as var. of *fulvida*).
aurantiaca Crawford, Pomona Jl. Ent., ii, pp. 231, 360, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 426, 428, 628, 1911.
‖*frontalis* Crawford, Pomona Jl. Ent., ii, p. 232, 1910 (as var. of *aurantiaca*).
Host: Salix.
Localities: Ill., Colo., Utah, N. Mex., Nev., Calif., Ore., Wash. (Europe.)

2869¼. **Trioza forcipula** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 227, 1912.
Host: Ulmus.
Localities: Ont., N. Y., Colo.

2869½. **Trioza pyrifoliae** Forbes

Forbes, 14th Rept. Ill. St. Ent., p. 98, 1885.
Mally, Proc. Ia. Acad. Sci., ii, p. 154, 1893 (mention).
Host: Pyrus.
Locality: Ill.

2870. **Trioza nigrilla** Crawf.

Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *nigra* Crawf.).
‖*salicis* Mally, Proc. Ia. Acad. Sci., ii, p. 161, 1893.
Crawford, Pomona Jl. Ent., iii, pp. 426, 428, 432, 1911 (figures).
Aulmann, Psyllid. Cat., p. 53, 1913 (listed).
Crawford, U. S. Natl. Mus., Bul. 85, p. 91, 1914 (figures).
Van Duzee, Check List Hemip., p. 86, No. 2870, 1916.
minuta Crawford, Pomona Jl. Ent., ii, p. 232, 1910.
Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 432, 1911 (figures).
‖*assimilis* Crawford, Pomona Jl. Ent., ii, p. 233, 1910.
Crawford, Pomona Jl. Ent., iii, pp. 426, 429, 438, 1911 (figures).
‖*nigra* Crawford, Pomona Jl. Ent., ii, pp. 232, 258, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 427, 428, 1911. [*minuta* Crawf.).
‖*similis* Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 433, 1911 (as var. of *flori* Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *assimilis* Crawf.).
dubia Patch, Me. Agr. Exp. Sta., Bul. 202, p. 226, 1912.
pomonae Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *assimilis* Aulmann, Psyllid. Cat., p. 51, 1913 (listed). [Crawf.).
louisianae Aulmann, Ent. Rundsch., xxix, p. 144, 1912 (n.n. for *nigra* Aulmann, Psyllid. Cat., p. 48, 1913 (listed). [Crawf.).
Host: Salix.
Localities: D. C., Ia., Colo., Nev. Calif. Wash.

2871. **Trioza varians** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 231, 361, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 628, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 91, 1914 (figures).
Host: Salix.
Localities: Colo., Utah, Calif., Albta., Brit. Col.

2872. **Trioza longicornis** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 231, 359, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, pp. 425, 427, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 92, 1914 (figures).
Host: (?)
Locality: Vanc. Isd.

2873. **Trioza stylifera** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 229, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 93, 1914 (figures).
Host: (?)
Locality: Ont.

2874. **Trioza alymeriae** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 93, 1914.
Host: Vaccinium(?) ("Bilberry").
Locality: Quebec.

2875. **Trioza alacris** Flor

Flor, Bul. Soc. Imp. Nat. Moscou, xxxiv, pp. 380, 386, 393, 398, 1861.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxii, p. 230, 1882; xxxvi, p. 166, 1886.
Thomas, Zeit. f. Pflanzenkr., viii, p. 92, 1891.
Dickel, Zeit. f. Wissen. Ins. Biol., i, p. 402, 1905.
Sulc, Sitz.-Ber. Kon. Böhm. Ges. Wissen. Prag, xix, p. 49, 1912.
Crawford, Bul. Calif. St. Comm. Hort., i, p. 86, 1912.
Crawford, U. S. Natl. Mus., Bul. 85, p. 94, 1914 (figures).
Essig, Inj. Benif. Ins. Calif., edn. 2, p. 68, 1915.
Weiss, Can. Ent., xlix, p. 73, 1917. [(nomen nudum).
lauri, Targioni–Tozetti, Resoc. Soc. Ent. Ital. (Atti xi), p. 19, 1879
Host: Laurus.
Localities: N. J., Calif. (Europe.)

2876. **Trioza viridis** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 230, 350, 1910 (figures).
Crawford, Pomona Jl. Ent., iii, p. 446, 1911, *Allotrioza* (mention).
Crawford, U. S. Natl. Mus., Bul. 85, p. 95, 1914 (figures).
Host: (?)
Locality: Calif.

2877. **Trioza magnoliae** (Ashm.)

Ashmead, Can. Ent., xiii, p. 224, 1881, *Psylla*.
Riley, Proc. Biol. Soc. Wash., ii, p. 70, 1884 (mention).
Crawford, Pomona Jl. Ent., ii, p. 228, 1910 (mention).
Crawford, Pomona Jl. Ent., iii, p. 445, 1911, *Allotrioza* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 96, 1914 (figures).
Host: Magnolia.
Localities: Ga., Fla.

[**Trioza sanguinosa** Riley MS]

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884.
§*sanguinea* Aulmann, Psyllid. Cat., p. 54, 1913.
Host: Pinus.
Locality: (?)

Genus **Neotriozella** Crawf.
Orthotype *immaculata* Crawf.

Crawford, Pomona Jl. Ent., iii, p. 503, 1911 (n.n. for *Neotrioza* Crawf.).
Crawford, U. S. Natl. Mus., Bul. 85, p. 98, 1914.
‖*Neotrioza* Crawford, Pomona Jl. Ent., iii, pp. 423, 450, 1911.

2878. **Neotriozella immaculata** (Crawf.)

Crawford, Pomona Jl. Ent., ii, p. 233, 1910, *Trioza*.
Crawford, Pomona Jl. Ent., iii, p. 450, 1911, *Neotrioza* (figures); p. 503, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 98, 1914 (figures).
ottawanensis Patch, Me. Agr. Exp. Sta., Bul. 202, p. 231, 1912.
Host: Pinus.
Localities: Ont., Nov. Scot., D. C., Ill., Ia.

2879. **Neotriozella sculptoconus** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 99, 1914.
Host: (?)
Locality: Calif.

2880. **Neotriozella laticeps** (Crawf.)

Crawford, Pomona Jl. Ent., ii, p. 233, 1910, *Trioza*.
Crawford, Pomona Jl. Ent., iii, p. 451, 1911, *Neotrioza* (figures); p. 503, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 100, 1914 (figures).
Host: (?)
Locality: La.

Genus **Ceropsylla** Riley
Haplotype *sideroxyli* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 76, 1884 (described).
Crawford, Pomona Jl. Ent., ii, p. 229, 1910; iii, p. 423, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 100, 1914. [Crawf.).
Triozoida Crawford, Pomona Jl. Ent., iii, p. 491, 1911 (orthotype *johnsoni*

2881. **Ceropsylla sideroxyli** Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 76, 1884 (described).
Crawford, U. S. Natl. Mus., Bul. 85, p. 101, 1914 (figures).
Host: Sideroxylon.
Locality: Fla.

2882. **Ceropsylla californica** Crawf.

Crawford, Pomona Jl. Ent., ii, pp. 232, 234, 1910, *Trioza* (figures).
Crawford, Pomona Jl. Ent., iii, pp. 423, 427, 1911, *Trioza;* p. 492, 1911,
Crawford, U. S. Natl. Mus., Bul. 85, p. 102, 1910. [*Triozoida*.
Host: Salix.
Localities: Colo., Calif.

Genus **Hemitrioza** Crawf.
Orthotype *sonchi* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 104, 1914.

2883. **Hemitrioza sonchi** Crawf.

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Trioza* (nomen nudum).
Aulmann, Psyllid. Cat., p. 55, 1913 (nomen nudum).
Crawford, U. S. Natl. Mus., Bul. 85, p. 104, fig. 402, 1914 (described).
Host: Sonchus.
Localities: D. C., Va., Ga.

Subfamily PSYLLIINAE Van D.

Van Duzee, Check List Hemip., p. 87, 1916 (n.n. for *Psyllinae* Put.).
Psyllaria Puton, Cat. Hemip. d'Eur. et Méd., p. 91, 1875.
Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 605, 607, 1878, *Psyllinae.*
Edwards, Hemip. Homop. Brit. Isds., p. 233, 1896, *Psyllidae.*
Oshanin, Verz. Palae. Hemip., ii, p. 349, 1907, *Psyllaria.*
Oshanin, Kat. Palae. Hemip., p. 126, 1912, *Psyllaria.* (Tribe.)
Aulmann, Psyllid. Cat., p. 5, 1913, *Psyllinae.*
Crawford, U. S. Natl. Mus., Bul. 85, pp. 18, 105, 1914, *Psyllinae.*

TRIBE *PACHYPSYLLINI* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 106, 1914.

Genus **Crawfordiella** Van D.
Orthotype *mira* Crawf.

Van Duzee, Check List Hemip., p. 87, 1916 (n.n. for *Uhleria* Crawf.).
‖*Uhleria* Crawford, U. S. Natl. Mus., Bul. 85, p. 106, 1914.

2884. **Crawfordiella mira** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 107, 1914, *Uhleria* (figures).
Van Duzee, Check List Hemip., p. 87, 1916.
Host: (?)
Locality: "U. S."(?).

Genus **Tetragonocephala** Crawf.
Orthotype *flava* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 107, 1914.

2885. **Tetragonocephala flava** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 108, 1914 (figures).
Host: (?)
Locality: Texas.

Genus **Pachypsylla** Riley
Logotype *venusta* (O.-S.)

Riley, Can. Ent., xv, p. 157, 1883 (described).
Riley, Proc. Biol. Soc. Wash., ii, p. 71, 1884 (indicates *venusta* as typical).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 614, 1890 (monograph,
Crawford, U. S. Natl. Mus., Bul. 85, p. 108, 1914. [names *venusta* type).

Subgenus **Pachypsylla** Riley

Van Duzee, Check List Hemip., p. 87, 1916.

2886. **Pachypsylla venusta** (O.-S.)

Osten-Sacken, Stet. Ent. Zeit., xxii, p. 422, 1861, *Psylla.*
Riley, Can. Ent., xv, p. 157, fig. 6, 1883 (gall).
Riley, Proc. Biol. Soc. Wash., ii, p. 72, 1884 (redescribed). [*Pachypsylla*, sec. 1).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 615, 1890 (as type of

Riley, *in* Packard, 5th Rept. U. S. Ent. Comm., pp. 616, 617, fig. 201, 1890
Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 274, 1892 (gall only). [(gall).
Townsend, Can. Ent., xxiv, p. 194, 1892.
Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 137, 1893.
Beutenmuller, Am. Mus. Jl., iv, p. 120, 1904.
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
Crawford, U. S. Natl. Mus., Bul. 85, p. 109, 1914 (figures). [(nomen nudum).
celtidis-grandis Riley, Johnson's Universal Cyclopedia, ii, p. 415, 1876
tridentata Patch, Me. Agr. Exp. Sta., Bul. 202, p. 224, 1912.
Host: Celtis.
Localities: N. J., Kans., Colo., Texas, N. Mex.

2887. **Pachypsylla celtidis-mamma** Riley

Riley, Johnson's Universal Cyclopedia, ii, p. 415, 1876 (nomen nudum).
Fyles, Can. Ent., xiv, p. 198, 1882 (gall mite without name).
Riley, Can. Ent., xv, p. 158, fig. 7, 1883 (gall only).
Fletcher, 13th Rept. Ent. Soc. Ont., p. 79, 1883, *Psylla*.
Riley, Proc. Biol. Soc. Wash., ii, p. 73, 1884 (described).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 615 (as type of *Pachypsylla* [sec. 2; p. 619, 1890 (described).
Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892 (gall only).
Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 131, 1893 (life history, variations in
Cook, Ohio Nat., iii, p. 426, 1903. [gall).
Cook, Ind. Dept. Geol., 29th Rept., p. 844, 1904.
Stough, Kans. Univ. Sci. Bul., v, p. 121, 1910 (anatomy).
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
Crawford, U. S. Natl. Mus., Bul. 85, p. 110, 1914 (figures).
Weiss, Ent. News, xxvii, p. 163, 1916 (mention). [(name only).
?celtidis-asteriscus Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890 (gall de- [scribed).
?celtidis-umbillicus Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 [(name only).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 619, 1884 (gall de- [scribed.
?celtidis-pubescens Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 [(name only).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 620, 1884 (gall de- [scribed.
?celtidis-globulus Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 621, [1890 (gall described).
Aulmann, Psyllid. Cat., p. 30, 1913 (spelled *globulosus*).
?celtidis-curcurbita Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 [(name only).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., pp. 621, 622, 1890 (gall [described).
Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 276, 1892 (figures).
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
[These five "species" are nomina nuda in entomology and are meaningless in botany. Crawford is probably correct in placing them as synonyms of *c.-mamma*.]
Host: Celtis.
Localities: Ont., N. Y., N. J., Ind., Ia., Kans., Colo., Texas.

2888. **Pachypsylla rohweri** Ckl.

Cockerell, Ent. News, xxi, p. 180, 1910.
Host: Celtis.
Locality: Colo.

2889. **Pachypsylla celtidis-vesiculum** Crawf.

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (name only).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890 (gall described).
Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892 (gall).
Beutenmuller, Am. Mus. Jl., iv, p. 120, 1904 (gall).
Jarvis, 37th Rept. Ent. Soc. Ont., p. 65, 1906 (gall).
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910 (listed).
Crawford, U. S. Natl. Mus., Bul. 85, p. 112, 1913 (described and figured).
Host: Celtis.
Localities: N. Y., N. J., Ia.

Subgenus **Blastophysa** Riley
Haplotype *celtidis-gemma* Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 75, 1884 (characterized).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 615, 1890 (3d section;; [names *c.-gemma* type).

2890. **Pachypsylla celtidis-gemma** Riley

Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884 (nomen nudum).
Riley, Proc. Biol. Soc. Wash., ii, p. 74, 1884 (described).
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 618, 1890.
Beutenmuller, Bul. Am. Mus. Nat. Hist., iv, p. 275, 1892.
Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 138, 1893.
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910.
Crawford, U. S. Natl. Mus., Bul. 85, p. 112, 1914 (figures).
Host: Celtis.
Localities: N. Y., D. C., Va., Ia., Mo., La., Texas.

2891. **Pachypsylla dubia** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 224, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.
Host: Celtis.
Locality: N. Y.(?).

2892. **Pachypsylla pallida** Patch

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 225, 1912 (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.
Host: Celtis.
Locality: Ariz.

2893. **Pachypsylla interneris** Mally

Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 138, 1893.
Crawford, U. S. Natl. Mus., Bul. 85, p. 113, 1914.
Host: Celtis.
Locality: Ia.

[**Pachypsylla celtidis-minuta** Riley MS]

Mally, Proc. Ia. Acad. Sci., i, pt. 4, p. 137, 1893.
Host: Celtis.
Locality: Ia.

TRIBE *EUPHYLLURINI* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 114, 1914.

Genus **Katacephala** Crawf.
Orthotype *grandiceps* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 114, 1914.

2894. **Katacephala grandiceps** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 114, 1914 (figures).
Host: (?)
Localities: Fla. (Bahamas.)

Genus **Euphyllura** Först.
Logotype *phillyrae* Först.

Förster, Verh. Natw. Ver. Preuss, Rheinl., v, p. 93, 1848.
Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 337, 416, 1861.
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 380, 1871.
Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, p. 607, 1878.
Schwarz, Proc. Ent. Soc. Wash., vi, p. 234, 1904. (Key.)
Crawford, U. S. Natl. Mus., Bul. 85, p. 115, 1914.

2895. **Euphyllura arctostaphyli** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 235, fig. 6, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 116, 1914 (figures).

a. var. **niveipennis** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 236, 1904.
Host: Arctostaphylos.
Localities: Wyo., Colo., Ariz., Calif., Wash.

2896. **Euphyllura arbuti** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 237, fig. 7, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 117, fig. 6, 1914.
Host: Arbutus menziezei.
Locality: Calif.

2897. **Euphyllura arbuticola** Crawf.

Crawford, U. S. Natl. Mus., Bul., 85, p. 118, 1914.
Host: Arbutus arizonica.
Locality: Ariz.

TRIBE *ARYTAININI* Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 118, 1914.

Genus **Euphalerus** Schw.
Haplotype *nidifex* Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, p. 238, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 118, 1914.

2898. **Euphalerus nidifex** Schw.

Schwarz, Proc. Ent. Soc. Wash., vi, pp. 153, 239, fig. 8, 1904.
Crawford, U. S. Natl. Mus., Bul. 85, p. 119, 1914.
Host: Piscidia.
Localities: Fla. (Neotropical.)

2899. **Euphalerus rugipennis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 120, 1914 (figures).

a. var. **immaculatus** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 121, 1914.

Host: Ceanothus.

Localities: Ariz., Calif.

2900. **Euphalerus vermiculosus** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 121, 1914 (figures).

Host: Ceanothus.

Locality: Calif.

2901. **Euphalerus propinquus** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 122, 1914 (figures).

Host: Ceanothus.

Locality: Ariz.

Genus **Arytaina** Först.

Logotype *genistae* Latr.

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 67 (p. 69 Crawf.), 1848.

Oshanin, Kat. Palae. Hemip., p. 128, 1912 (names *genistae* type).

Crawford, U. S. Natl. Mus., Bul. 85, p. 122, 1914.

‡*Arytaena* Scott, Trans. Ent. Soc. Lond. for 1876, p. 528.

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 596, 609, 1878.

Edwards, Hemip. Homop. Brit. Isds., p. 250, 1896.

Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 165, 1905.

‡*Ataenia* Thomson, Opusc. Ent., viii, p. 828, 1877 (as subgenus).

Psyllopa Crawford, Pomona Jl. Ent., iv, p. 684, 1912 (nomen nudum).

2902. **Arytaina robusta** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 123, 1914 (figures).

Host: Ceanothus.

Localities: Colo., Ariz., Calif., Wash.

2903. **Arytaina fuscipennis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 125, 1914 (figures).

Host: Ceanothus.

Localities: Colo., Nev., Calif.

2904. **Arytaina genistae** (Latr.)

Latreille, Hist. Nat. Crust. Ins., xii, p. 382, 1804, *Psylla*.

Guerin and Percheron, Genera des Ins., pt. 4, No. 8, pl. 4, 1835, *Psylla*.

Guerin, Icon. Règne Animal, p. 375, 1843, *Psylla*.

Burmeister, Zool. Handatlas, pl. 29, fig. 28, 1843; edn. 2, p. 139, pl. 31, fig. 28, [1860, *Psylla*.

Thomson, Opusc. Ent., viii, p. 828, 1877, *Ataenia*.

Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 125, 1877; xxviii, p. 597, pl. 9, figs. [11, 12, 1878.

Scott, Ent. Mo. Mag., xvii, pp. 132, 1880 (young).

Löw, Verh. Zool.-Bot. Ges. Wien, xxxviii, p. 19, 1888 (food habits).

Edwards, Hemip. Homop. Brit. Isds., p. 250, pl. 27, fig. 7, 1896.

Sulc, Acta Soc. Ent. Bohemiae, ii, p. 4, 1905.

Crawford, U. S. Natl. Mus., Bul. 85, p. 125, 1914 (figures).

ulicis Curtis, Brit. Ent., xii, pl. 565, 1835, *Psylla*.

Scott, Trans. Ent. Soc. Lond. for 1876, p. 529, pl. 8, fig. 1.

spartii Hartig *in* Germar's Zeit. f. Ent., iii, p. 375, 1841, *Psylla.*
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 69, 1848.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 405, 1871.
magna Crawford, Pomona Jl. Ent., iii, p. 628, fig. 209, B. D., 1911, *Psyllopa.*
Hosts: Ulex, Sarothamnus, Spartium.
Localities: Mass. (Europe.)

2905. **Arytaina ribesiae** (Crawf.)

Crawford, Pomona Jl. Ent., iii, p. 630, 1911, *Psyllopa.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 126, 1914 (figures).
Hosts: Ribes, Ceanothus.
Localities: Colo., Utah, Ariz., Calif.

2906. **Arytaina assimilis** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 127, 1914 (figures).
Host: Ceanothus.
Locality: Calif.

2907. **Arytaina minuta** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 128, 1914 (figures).
Host: Ceanothus.
Locality: Calif.

2908. **Arytaina chelifer** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 128, 1914 (figures).
Host: Purshia.
Localities: Utah, Ariz.

2909. **Arytaina amorphae** (Mally)

Mally, Proc. Ia. Acad. Sci., ii, p. 159, 1895, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 129, 1914 (figures).
†*ilicis* Crawford, Pomona Jl. Ent., iv, p. 684, 1912.
floridensis Crawford, Pomona Jl. Ent., iii, p. 629, 1911, *Psyllopa.*
Host: Amorpha.
Localities: Ia., Neb.

2910. **Arytaina ceanothae** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 130, 1914 (figures).
Host: Ceanothus.
Locality: Calif.

2911. **Arytaina aculeata** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 131, 1914.
Host: Ceanothus.
Locality: Calif.

2912. **Arytaina pubescens** Crawf.

Crawford, U. S. Natl. Mus., Bul. 85, p. 131, 1914 (figures).
Host: Purshia.
Localities: Nev., Calif.

Genus **Psyllopsis** Löw
Logotype *fraxinicola* (Först.)

Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 587, 606, 1878.
Edwards, Hemip. Homop. Brit. Isds., p. 233, 1896.

Oshanin, Kat. Palae. Hemip., p. 126, 1912 (names *fraxinicolor* Först. type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 132, 1914.

2913. **Psyllopsis fraxinicola** (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 73, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, pp. 398, 399, 1871, *Psylla*.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 544, pl. 8, fig. 4, *Psylla*.
Thomson, Opusc. Ent., viii, p. 829, 1877, *Psylla*.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 138, 1877, *Psylla;* xxviii, p. 588, 1878.
Löw, Wien. Ent. Zeit., i, p. 211, 1882.
Edwards, Hemip. Homop. Brit. Isds., p. 234, 1896.
Smith, Cat. Ins. N. J., edn. 3, p. 108, 1910.
Felt, 26th Rept. N. Y. St. Ent., p. 39, 1911.
Crawford, U. S. Natl. Mus., Bul. 85, p. 132, 1914 (figures).
viridula Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 74, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 339, 1871, *Psylla*.
unicolor Flor, Rhyn. Livl., ii, p. 479, 1861, *Psylla*.
Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 340, 347, 353, 1861, *Psylla*.
chlorogenes Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 399, 1871, *Psylla*.
Hosts: Fraxinus, Corylus, Juglans.
Localities: N. Y., D. C., Calif. (Europe.)

TRIBE *PSYLLIINI* Van D.

Van Duzee, Check List Hemip., p. 88, 1916 (n.n. for *Psyllini* Crawf.).
Psyllini Crawford, U. S. Natl. Mus., Bul. 85, pp. 106, 134, 1914.

Genus **Psyllia** Kirk.
Logotype *pyri* (Linn.)

Kirkaldy, Wien. Ent. Zeit., xxiv, p. 268, 1905 (n.n. for *Psylla* Auct.).
Van Duzee, Check List Hemip., p. 88, 1916.
†*Psylla* Löw, Verh. Zool.-Bot. Ges. Wien, xxviii, pp. 600, 608, 1878.
Edwards, Hemip. Homop. Brit. Isds., p. 235, 1896.
Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 164, 1905.
Oshanin, Verz. Palae. Hemip., ii, p. 350, 1907.
Oshanin, Kat. Palae. Hemip., p. 127, 1912 (names *pyri* Linn. type).
Crawford, U. S. Natl. Mus., Bul. 85, p. 135, 1914 (names *alni* Linn. type).

2914. **Psyllia fibulata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 140, 1914, *Psylla* (figures).
Host: (?)
Locality: Colo.

2915. **Psyllia sinuata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 140, 1914, *Psylla* (figures).
Host: (?)
Localities: Colo., Labrador(?).

2916. **Psyllia parallela** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 141, 1914, *Psylla*.
Host: (?)
Locality: Calif.

2917. **Psyllia maculata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 141, 1914, *Psylla* (figures).
Host: (?)
Locality: Colo.

2918. **Psyllia breviata** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 220, 1912, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 141, fig. 133, 1914, *Psylla.*
Host: Pinus.
Localities: Ont., Mich., Calif.

2919. **Psyllia coryli** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 223, 1912, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 143, 1914, *Psylla.*
Host: Corylus(?).
Locality: Colo.

2920. **Psyllia minuta** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 142, 1914, *Psylla* (figures).
Host: Purshia.
Localities: Utah, Ariz., Nev., Calif.

2921. **Psyllia alba** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 143, 1914, *Psylla* (figures).
Host: Salix.
Localities: Texas, N. Mex., Nev., Calif.

2922. **Psyllia pyricola** (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 77, 1848, *Psylla.*
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 396, 1871, *Psylla.*
Scott, Ent. Mo. Mag., xix, p. 205, 1883, *Psylla.*
Riley, Proc. Biol. Soc. Wash., ii, p. 69, 1884, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxxvi, p. 156, 1886, *Psylla.*
Schwarz, Can. Ent., xxiii, p. 231, 1891, *Psylla.*
Riley(?), Insect Life, iv, pp. 127, 225, 1891, *Psylla* (transl. of Löw, 1886).
Slingerland, Insect Life, v, p. 100, 1892, *Psylla.*
Slingerland, Cornell Agr. Exp. Sta., Bul. 44, 1892; Bul. 108, 1896, *Psylla.*
Riley and Howard, Insect Life, v, pp. 200, 226, 1893, *Psylla.*
Lintner, 9th Rept. N. Y. St. Ent., p. 317, 1893, *Psylla* (bibliography).
Marlatt, Insect Life, vii, p. 175, 1894, *Psylla.*
Marlatt, U. S. Dept. Agr., Bur. Ent., Circ. 7, 1895, *Psylla.*
Edwards, Hemip. Homop. Brit. Isds., p. 240, pl. 27, fig. 2, 1896, *Psylla.*
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910, *Psylla.*
Patch, Me. Agr. Exp. Sta., Bul. 187, p. 11, 1911; Bul. 202, p. 221, 1912, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 144, 1914, *Psylla* (figures).
Essig, Inj. Benef. Ins. Calif., edn. 2, p. 67, 1915, *Psylla.*
†*pyri* Curtis, Brit. Ent., xii, pl. 565, 1836, *Psylla.*
Curtis, Gardner's Chronicle for 1840, p. 156, *Psylla.*
Harris, Treat. Ins. Inj. Veg., edn. 2, p. 201, 1852, *Psylla.*
Fitch, Trans. N. Y. St. Agr. Soc., xvi, p. 353, 1856, *Psylla.*
Uhler, U. S. Comm. Patents, Rept. for 1860, p. 314, 1861, *Psylla.*
Harris, Treat. Ins. Inj. Veg., edn. 3, p. 231, 1862, *Psylla.*
Packard, Guide to Study of Ins., p. 531, 1869, *Psylla.*

Walsh and Riley, Am. Ent., i, p. 225, 1869, *Psylla.*
LeBaron, 2d Rept. Nox. Ins. Ill., p. 134, 1872, *Psylla.*
Thomas, 8th Rept. Ill. St. Ent., p. 16, 1879, *Psylla.*
Ashmead, Can. Ent., xiii, p. 220, 1881, *Psylla.*
Cooke, Inj. Ins. Orch. and Vineyard, p. 117, 1883, *Psylla.*
Riley, Proc. Am. Assoc. Adv. Sci., xxxii, p. 319, 1884, *Psylla.*
apiophila Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 78, 1848, *Psylla.*
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 396, 1871, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 137, 1877, *Psylla.*
notata Flor, Bul. Soc. Nat. Moscou, xxxiv, p. 365, 1861, *Psylla.*
†*pyrisuga* Barnard, Proc. Am. Assoc. Adv. Sci., xxviii, p. 478, 1880, *Psylla.*
†*simulans* Slingerland, Cornell Univ. Agr. Exp. Sta., Bul. 44, p. 174, 1892,
Host: Pyrus. [*Psylla* (winter form).
Localities: Me., Mass., Conn., N. Y., N. J., Md., Va., Ohio, Mich., Ill., Calif.(?).

2923. **Psyllia hartigi** (Flor)

Flor, Rhyn. Livl., ii, p. 469, 1861, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxvii, p. 130, 1877; xxix, p. 577, 1880, *Psylla.*
Thomson, Opusc. Ent., viii, p. 838, 1877, *Chermes.*
Scott, Ent. Mo. Mag., xviii, p. 255, 1882, *Psylla* (listed).
Edwards, Hemip. Homop. Brit. Isds., p. 244, pl. 28, fig. 4, 1896, *Psylla.*
Sule, Cas. Spol. Ent., ii, p. 3, 1905, *Psylla.*
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 146, 1914, *Psylla* (figures).
‖*sylvicola* Lethierry, Cat. Hémip., Dept. Nord, p. 90, 1874, *Psylla.*
Reuter, Medd. Soc. Fauna Flora Fenn., i, p. 73, 1876, *Psylla.*
Scott, Trans. Ent. Soc. Lond. for 1876, p. 539, *Psylla.*
Douglas, Ent. Mo. Mag., xiii, p. 68, 1876, *Psylla.*
Host: Metula.
Localities: Mo. (Europe.)

2923¼. **Psyllia saliceti** (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 79, 1848, *Psylla.*
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 397, 1871, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien., xxvii, p. 132, pl. 6, fig. 4, 1877, *Psylla.*
Thomson, Opusc. Ent., viii, p. 839, 1877, *Chermes.*
Sule, Wien. Ent. Zeit., xxviii, p. 15, 1909, *Psylla.*
Oshanin, Verz. Palae. Hemip., ii, p. 361, 1907; iii, p. 192, 1910, *Psylla.*
salicicola Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 72, 1848, *Psylla.*
Flor, Rhyn. Liv., ii, p. 467, 1861, *Psylla.*
Flor, Bul. Soc. Nat. Moscou, xxxiv, pp. 345, 348, 355, 1861, *Psylla.*
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 398, 1871, *Psylla.*
Scott, Trans. Ent. Soc. Lond. for 1876, p. 537, pl. 8, fig. 3, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, p. 198, pl. 1, figs. 6–9, pl. 2, figs.
Thomson, Opusc. Ent., viii, p. 839, 1877, *Chermes.* [23–25, 1876, *Psylla.*
Edwards, Hemip. Homop. Brit. Isds., p. 241, 1896, *Psylla.*
rufula Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 76, 1848, *Psylla.*
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla.*
subgranulata Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 94, 1848,
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla.* [*Psylla.*
Host: Salix.
Locality: Greenland. (Europe.)

2923½. **Psyllia ambigua** (Först.)

Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 79 (p. 74, Osh.), 1848, *Psylla.*
Meyer–Dür, Mitt. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla.*
Löw, Verh. Zool.–Bot. Ges. Wien, xxxii, p. 231, 1882, *Psylla.*
Edwards, Hemip. Homop. Brit. Isds., p. 244, 1896, *Psylla.*
Aulmann, Psyllid. Cat., p. 10, 1913, *Psylla* (listed).
insignis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 74, 1848, *Psylla.*
Meyer–Dür, Mitth. Schw. Ent. Ges., iii, p. 400, 1871, *Psylla.*
melina Flor, Rhyn. Livl., ii, p. 477, 1861, *Psylla.*
Flor, Bul. Soc. Nat. Moscou, xxxiv, p. 345, 1861, *Psylla.*
Kuwayama, Trans. Sapporo Nat. Hist. Soc., ii, pp. 162, 172, 1907, *Psylla.*
stenolabis Löw, Pet. Nouv. Ent., ii, p. 65, 1876, *Psylla.*
Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, p. 144, pl. 6, fig. 10, 1877, *Psylla.*
Sulc, Sitz.-Ber. Bohm. Ges. Wissen. for 1909, No. 22, p. 25, *Psylla.*
annellata Thomson, Opusc. Ent., viii, p. 836, 1877, *Chermes.*
Host: Salix.
Localities: Greenland. (Europe.)

2924. **Psyllia quadrilineata** (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 65, 1851, *Psylla.*
Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla* (after Fitch).
?Provancher, Pet. Faune Ent. Can., iii, p. 305, 1890, *Psylla.*
Mally, Proc. Ia. Acad. Sci., ii, p. 153, 1893, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla.*
Host: Salix.
Localities: Quebec, N. Y., Kans., Colo.

2924½. **Psyllia arctica** (Walk.)

Walker, List Homop., iv, p. 931, 1852, *Aphalara.*
Scott, Trans. Ent. Soc. Lond. for 1882, pl. 19, fig. 1, *Aphalara.*
Psylla sp., Schwarz, Proc. Wash. Acad. Sci., ii, p. 540, 1900.
Host: (?)
Localities: Hudson's Bay, Alaska.

2925. **Psyllia americana** (Crawf.)

Crawford, Pomona Jl. Ent., iii, p. 628, 1911, *Psylla* (nomen nudum).
Crawford, Pomona Jl. Ent., iv, p. 684, 1912, *Psylla* (mentioned). [figured)
Crawford, U. S. Natl. Mus., Bul. 85, p. 147, 1914, *Psylla* (described and

a. var. **minor** (Crawf.)
Crawford, U. S. Natl. Mus., Bul. 85, p. 147, 1914, *Psylla.*

b. var. **flava** (Crawf.)
Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla.*
Host: Salix.
Localities: Colo., Utah, Calif., Ore., Brit. Col., Albta.

2926. **Psyllia ribis** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 148, 1914, *Psylla.*
Host: (?)
Localities: Me., Colo.

2927. **Psyllia borealis** Horv.

Horvath, Ann. Mus. Natl. Hung., vi, p. 568, 1908.
Host: (?)
Locality: Greenland.

2928. **Psyllia alaskensis** (Ashm.)

Ashmead, Harriman Alaska Exped., viii, p. 137, 1904, *Psylla*.
Crawford, U. S. Natl. Mus., Bul. 85, p. 149, fig. 415, 1914, *Psylla*
Host: (?)
Locality: Alaska.

2929. **Psyllia magnicauda** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 149, 1914, *Psylla* (figures).
Host: (?)
Locality: Colo.

2930. **Psyllia striata** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 14, 1911, *Psylla*.
Crawford, U. S. Natl. Mus., Bul. 85, p. 150, 1914, *Psylla*.
Host: Betula.
Localities: Me., N. H., Wis., Colo., Calif.

2931. **Psyllia carpinicola** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 151 (figures), 1914, *Psylla* (n.n. for ‖*carpini* Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*. [*carpini* Fh.).
Thomas, 8th Rept. Ill. St. Ent., p. 18, 1879, *Psylla* (after Fitch).
Van Duzee, Can. Ent., xxxviii, p. 411, 1906; xl, p. 160, 1908, *Psylla*.
Host: Carpinus.
Localities: Quebec, N. Y., Wis., Ia., Nev.

2932. **Psyllia cephalica** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 151, 1914, *Psylla* (figures).
Hosts: Carpinus, Rubus.
Localities: N. Y., D. C., Wis., Ark., Texas.

2933. **Psyllia annulata** (Fh.)

Fitch, Homop. N. Y. St. Cab., p. 64, 1851, *Psylla*.
Riley *in* Lintner, 9th Rept. N. Y. St. Ent., p. 411, 1893, *Psylla* (note).
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 219, 1912, *Psylla*.
Crawford, U. S. Natl. Mus., Bul. 85, p. 152, 1914, *Psylla* (figures).
Host: Acer.
Localities: Conn., N. Y., Ia.

2934. **Psyllia negundinis** (Mally)

Mally, Proc. Ia. Acad. Sci., ii, p. 155, 1894, *Psylla*.
Patch, Me. Agr. Exp. Sta., Bul. 202, p. 220, 1912, *Psylla*.
Crawford, U. S. Natl. Mus., Bul. 85, p. 152, 1914, *Psylla*.
Host: Negundo.
Localities: Ia., Wis., Colo., N. Mex.

2935. **Psyllia brevistigmata** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 222, 1912, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 153, 1914, *Psylla* (figures).

a. var. **magna** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 154, 1914, *Psylla*.

b. var. **acuta** (Crawf.)
Crawford, U. S. Natl. Mus., Bul. 85, pl. 154, 1914, *Psylla.*
Host: Pinus, Cercocarpus.
Localities: Colo., Utah, Nev., Calif.

2936. **Psyllia floccosa** (Patch)

Patch, Can. Ent., xli, p. 301, 1909, *Psylla.*
Patch, Ann. Ent. Soc. Am., ii, p. 117, 1909, *Psylla* (venation).
Patch, Me. Agr. Exp. Sta., Bul. 187, p. 11, 1911, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 154, 1914, *Psylla* (figures).
Host: Alnus.
Localities: Ont., Me., N. H., Md., Colo., Calif.

2937. **Psyllia astigmata** Crawf.

Crawford, N. S. Natl. Mus., Bul. 85, p. 155, 1914, *Psylla* (figures).
Host: Prunus.
Localities: Wis., Colo., Calif., Wash.

2938. **Psyllia trimaculata** (Crawf.)

Crawford, Pomona Jl. Ent., iii, p. 631, 1911, *Psylla* (as var. of *alni*).
Crawford, U. S. Natl. Mus., Bul. 85, p. 155, 1914, *Psylla.*
Host: (?)
Locality: N. Y.

2939. **Psyllia cerasi** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 202, p. 223, 1912, *Psylla* (figures).
Crawford, U. S. Natl. Mus., Bul. 85, p. 156, 1914, *Psylla.*
Host: Cerasus.
Locality: Me.

2940. **Psyllia alni** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes.*
Linnaeus, Fauna Suec., edn. 2, p. , No. 1008, 1761, *Chermes.*
Geoffroy, Hist. Abreg. des Ins., i, p. 486, No. 3, 1762, *Psylla.*
Scopoli, Ent. Carn., p. 140, 1763, *Chermes.*
Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes.*
DeGeer, Mémoires, iii, p. 148, pl. 10, fig. 8, 1773, *Chermes.*
Fabricius, Syst. Ent., p. 741, 1775, *Chermes.*
Goeze, Ent. Beytr., ii, p. 323, 1778, *Chermes.*
Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes.*
Retzius, Genera et Spec. Ins., p. 79, 1783, *Chermes.*
Fabricius, Mant. Ins., ii, p. 318, 1787, *Chermes.*
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes.*
Latreille, Hist. Nat. Crust. Ins., iii, p. 267, 1802, *Psylla.*
Fabricius, Ent. Syst., iv, p. 222, 1794, *Chermes.*
Fabricius, Syst. Rhyng., p. 305, 1803, *Chermes.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 380, 1804, *Psylla.*
Latreille, Genera Crust. Ins., iii, p. 169, 1807, *Psylla.*
Latreille, Consid. Gén., p. 434, 1810 (as type of *Psylla*).
Leach, Brewster's Edinbg. Encyc., ix, p. 125, 1815, *Psylla.*
Zetterstedt, Fauna Lapp., p. 556, 1828, *Chermes.*

Burmeister, Hand. d. Ent., ii, p. 98, 1835, *Psylla*.
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 70, 1848, *Psylla*.
Walker, List Homop., iv, p. 912, 1852, *Psylla* (bibliography).
Flor, Rhyn. Livl., ii, p. 460, 1861, *Psylla*.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 532, *Psylla*.
Löw, Verh. Zool.-Bot. Ges. Wien, xxvi, pl. 2, figs. 26, 32–35, 1876, *Psylla*.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxviii, p. 17, 1888, *Psylla* (note).
Edwards, Hemip. Homop. Brit. Isds., p. 248, pl. 27, fig. 4, 1896, *Psylla*.
Aulmann, Psyllid. Cat., p. 9, 1913, *Psylla*.
Crawford, U. S. Natl. Mus., Bul. 85, p. 160, pl. 27, fig. 476, 1914, *Psylla*.
fuscinervis Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 70, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 395, 1871, *Psylla*.
heydeni Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 81, 1848, *Psylla*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 395, 1871, *Psylla*.

a. var. **americana** (Crawf.)
Crawford, U. S. Natl. Mus., Bul. 85, p. 156, 1914, *Psylla* (figures).
Host: Alnus.
Localities: "Am. Sept." (Linnaeus), Nev., Calif. (Europe.)

2940½. **Psyllia buxi** (Linn.)

Linnaeus, Syst. Nat., edn. 10, i, p. 454, 1758, *Chermes*.
Geoffroy, Hist. Abreg. des Ins., i, p. 485, No. 2, 1762, *Psylla* (without name).
Linnaeus, Syst. Nat., edn. 12, ii, p. 738, 1767, *Chermes*.
Fabricius, Syst. Ent., p. 740, 1775, *Chermes*.
Goeze, Ent. Beytr., ii, p. 322, 1778, *Chermes*.
Fabricius, Spec. Ins., ii, p. 391, 1781, *Chermes*.
Fourcroy, Ent. Paris., i, p. 223, 1785, *Psylla*.
Fabricius, Mant. Ins., ii, p. 317, 1787, *Chermes*.
Gmelin *in* Linnaeus, Syst. Nat., edn. 13, i, pt. 4, p. 2212, 1788, *Chermes*.
Fabricius, Ent. Syst., iv, p. 221, 1794, *Chermes*.
Fabricius, Syst. Rhyng., p. 304, 1803, *Chermes*.
Blanchard, Hist. des. Ins., Hémip., p. 210, 1840, *Chermes*.
Förster, Verh. Natw. Ver. Preuss. Rheinl., v, p. 71, 1848, *Psylla*.
Walker, List Homop., iv, p. 913, 1852, *Psylla*.
Westwood, Gardner's Chronicle for 1852, p. 517, *Chermes*.
Meyer-Dür, Mitth. Schw. Ent. Ges., iii, p. 399, 1871, *Psylla*.
Scott, Trans. Ent. Soc. Lond. for 1876, p. 534, *Psylla*.
Scott, Ent. Mo. Mag., xvii, p. 18, 1880, *Psylla*.
Löw, Verh. Zool.-Bot. Ges. Wien, xxxi, p. 169, 1881, *Psylla*.
Smith, Cat. Ins. N. J., edn. 3, p. 109, 1910, *Psylla*.
Riley *in* Packard, 5th Rept. U. S. Ent. Comm., p. 672, 1890, *Psylla*.
Edwards, Hemip. Homop. Brit. Isds., p. 249, pl. 28, fig. 7, 1896, *Psylla*.
Weiss, Ent. News, xxviii, p. 96, 1917 (occurrence).
Host: Buxus.
Localities: N. J., D. C. (Europe.)

2941. **Psyllia caudata** (Crawf.)

Crawford, U. S. Natl. Mus., Bul. 85, p. 157, 1914, *Psylla* (figures).
Host: Alnus.
Locality: Colo.

2942. **Psyllia galeaformis** (Patch)

Patch, Me. Agr. Exp. Sta., Bul. 187, p. 12, 1911, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 157, fig. 144, 1914, *Psylla.*
Host: Alnus.
Localities: Ont., Me., N. H., N. Y., Mich., Wash.

UNCERTAIN SPECIES

2943. **Psyllia reticeps** (Prov.)

Provancher, Pet. Faune Ent. Can., iii, p. 305, 1890, *Psylla.*
Crawford, U. S. Natl. Mus., Bul. 85, p. 159, 1914, *Psylla.*
Host: (?)
Locality: Quebec.

2943¼. **Psylla ochracea** Prov.

Provancher, Nat. Can., iv, p. 379, 1872.
Host: (?)
Locality: Quebec.

2943½. **Psylla brunnea** Prov.

Provancher, Nat. Can., iv, p. 379, 1872.
Host: (?)
Locality: Quebec.

2943¾. **Psylla cedrelae** Kief.

Kieffer, Ann. Soc. Sci. Bruxelles, xxix, p. 32, fig. 11, pl. 2, fig. 20, 1905.
Aulmann, Psyllid. Cat., p. 12, 1913.
Host: (?)
Locality: "Amerika."

2944. **Diraphia quadricornis** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 306, 1890.
Crawford, U. S. Natl. Mus., Bul. 85, p. 160, 1914, *Psylla.*
Host: (?)
Locality: Ont.

2945. **Diraphia sanguinea** Prov.

Provancher, Pet. Faune Ent. Can., iii, p. 307, 1890.
Crawford, U. S. Natl. Mus., Bul. 85, p. 160, 1914, *Psylla.*
Host: (?)
Locality: Quebec.

ADDITIONS AND CORRECTIONS

(The head-lines are not included in counting the lines.)

Page 4, after line 16, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 6, after line 8 from bottom, add

Barber, Jl. N. Y. Ent. Soc., xix, p. 198, 1911. N. J.

Page, 16, line 9, for **gilletti** read **gillettii.**

Page 20, after line 29, add

Stoner, Proc. Ia. Acad. Sci., xxiii, p. 304, 1916. Ia.

Page 22, after line 30, add

Stoner, Proc. Ia. Acad. Sci., xxiii, p. 304, 1916. Ia.

Page 49, after line 30, add

Olsen, Jl. N. Y. Ent. Soc., xviii, p. 39, 1910.

Page 62, after line 4, add

Barber, Jl. N. Y. Ent. Soc., xix, p. 198, 1911. N. J.

Page 74, after line 9, add

Osborn and Drake, Ohio Nat., xv, p. 508, 1915. Ohio.

Page 88, after line 1, add

Gibson, Psyche, xxiv, p. 69, 1917 (key to species).

Page 104, after line 29, add

Morrill, U. S. Dept. Agr., Div. Ent., Bul. 39, 1899.

Page 119, after line 3, add

Osborn and Drake, Ohio Nat., xv, p. 506, 1915. Ohio.

Page 126, after line 22, add

Osborn and Drake, Ohio Nat., xv, p. 506, 1915. Ohio.

Page 142, after line 5, add

Osborn and Drake, Ohio Nat., xv, p. 505, 1915. Ohio.

Page 147, after line 1, add

Barber, Psyche, xxiv, p. 128, 1917 (key to N. American genera).

Page 155, after line 2, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 190, after line 15 from bottom, add

582½. **Rhyparochromus plenus** Dist.

Distant, Biol. Centr. Am., Heter., i, p. 216, pl. 19, fig. 23, 1882.

Parshley, Can. Ent., xlix, p. 47, 1917.

Localities: Mass., Conn., Ariz. (Guatemala.)

Page 200, after line 7, add

Bueno, Ent. News, xxviii, p. 65, 1917 (review of Am. species).

Page 203, after line 11 from bottom, add

Davis, Jl. N. Y. Ent. Soc., xix, p. 113, 1911. N. Y.

Page 210, line 11 from bottom should follow line 19 from bottom.

Page 211, at bottom of page, add

637⅛. **Acalypta grisea** Heid.

Heidemann, Proc. Ent. Soc. Wash., xviii, p. 218, pl. 17, fig. 2, 1916.

Localities: Mass., Md., N. C.

Page 212, after line 3, add

Parshley, Psyche, xxiv, p. 14, 1917.

Page 212, after line 7, add

637⅞. **Acalypta cooleyi** Drake

Drake, Ohio Jl. Sci., xvii, p. 213, 1917.

Locality: Mont.

Page 212, after line 10, add

Parshley, Psyche, xxiv, p. 15, 1917.

Page 212, after line 13, add

Genus **Dictyonota** Curt.

Orthotype †*eryngii* Curt. = *strichnocera* Fieb.

Curtis, Brit. Ent., iv, pl. 154, 1827.

Fieber, Ent. Monog., p. 91, 1844. [pseudotype).

Laporte, Essai Syst. Classif. Hémip., p. 50, 1832 (names *crassicornis* Fabr.

Spinola, Essai sur les Hémip., p. 165, 1837 (1840), *Dyctionota.*

Herrich-Schaeffer, Wanz. Ins., iv, p. 73, 1839. [as type).

Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (cites *eryngii*

Spinola, Tavola Sinot., p. 43, 1850, *Dyctionota.*

Flor, Rhyn. Livl., i, p. 357, 1860.

Fieber, Europ. Hemip., pp. 36, 126, 1861.

Douglas and Scott, Brit. Hemip., p. 255, 1865.

Walker, List Heter., vi, pp. 175, 176, 1873.

Horvath, Ann. Mus. Natl. Hung., iv, pp. 13, 36, 1906 (monograph).

Subgenus **Alcletha** Kirk.

Orthotype *tricornis* Schrnk.

Kirkaldy, Entomol., xxxiii, p. 241, 1900 (n.n. for †*Dictyonota* Stål).

Horvath, Ann. Mus. Natl. Hung., iv, p. 37, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 415, 1908.

Oshanin, Kat. Palae. Hemip., p. 43, 1912.

†*Dictyonota* Stål, Enum. Hemip., iii, p. 118, 1873.

Stål, Of. Vet. Akad. Forh., xxxi, p. 49, 1874.

Puton, Synop. Heter. Fr., i, p. 100, 1879.

Lethierry and Severin, Cat. Génl. Hémip., iii, p. 7, 1896.

637⅞. **Dictyonota tricornis** (Schrnk.)

Schrank, Fauna Boic., ii, p. 67, 1801, *Acanthia.*

Reuter, Revue Synon., p. 221, No. 173, 1888.

Horvath, Ann. Mus. Zool. Univ. Napoli, ii, No. 10, pp. 1, 3, 1906.

Horvath, Ann. Mus. Natl. Hung., iv, p. 41, 1906.

Oshanin, Verz. Palae. Hemip., i, p. 415, 1908.

crassicornis Fallén, Monog. Cimic. Suec., p. 38, 1807, *Tingis.*

Curtis, Brit. Ent., iv, pl. 154, 1827.

Zetterstedt, Fauna Lapp., p. 480, 1828, *Tingis.*

Fallén, Hemip. Suec. Cimic., p. 147, 1829, *Tingis.*

Laporte, Essai Classif. Syst. Hémip., p. 50, 1832 (as type).

Brulle, Hist. des Ins., ix, p. 339, pl. 25, fig. 6, 1835, *Tingis.*

Spinola, Essai sur les Hémip., p. 165, 1837 (1840), *Dyctionota.*

Zetterstedt, Ins. Lapp., column 269, 1840, *Tingis* (*Piesma*).

Fieber, Ent. Monog., p. 92, pl. 7, figs. 42–47, 1844.

Sahlberg, Geoc. Fenn., p. 134, 1848.

Herrich-Schaeffer, Wanz. Ins., ix, p. 157, 1853.

Flor, Rhyn. Livl., i, p. 358, 1860.

Fieber, Europ. Hemip., p. 127, 1861.

Douglas and Scott, Brit. Hemip., p. 255, 1865.

Walker, Cat. Heter., vi, p. 177, 1873.
Stål, Of. Vet. Akad. Forh., xxxi, p. 49, 1874.
Saunders, Trans. Ent. Soc. Lond. for 1875, p. 250.
Puton, Synop. Heter. Fr., i, p. 100, 1879.
Reuter, Ent. Tidskr., iii, p. 117, 1882.
Saunders, Hemip. Heter. Brit. Isds., p. 128, pl. 12, fig. 1, 1892.
Rey, Échange, ix, p. 97, 1893.
Hüeber, Fauna Germ., Hemip., p. 313, 1893.

erythrophthalma Germar, Fauna Ins. Eur., iii, pl. 25, 1817, *Tingis.*
Schilling, Berm. u. Tingis, *in* Arb. Veränd. Schles. Ges. for 1837,
Herrich-Schaeffer, Wanz. Ins., iv, p. 74, 1839. [p. 106, 1838, *Tingis.*
Fieber, Ent. Monog., p. 94, pl. 8, figs. 1–3, 1844.
Herrich-Schaeffer, Wanz. Ins., ix, p. 158, 1853.
Fieber, Europ. Hemip., p. 127, 1861.
Garbiglietti, Bul. Soc. Ent. Ital., i, p. 275, 1869.
Walker, Cat. Heter., vi, p. 177, 1873.
Puton, Synop. Heter. Fr., i, p. 100, 1879 (as var.). [*Tingis.*

pilicornis Herrich-Schaeffer, Fauna Ins. Germ., No. 118, pl. 17, 1830,
Herrich-Schaeffer, Nomen. Ent., p. 57, 1835, *Tingis.*
Herrich-Schaeffer, Wanz. Ins., iv, p. 74, 1839.
Fieber, Ent. Monog., p. 95, pl. 8, figs. 8–9, 1844.
Kolenati, Melet. Ent., vi, p. 14, 1856, *Campylosteira.*

†*marginatum* Burmeister, Handb. d. Ent., ii, p. 258, 1835, *Piesma.*
Costa, Cimic. Reg. Neap., Cent. i, p. 21, 1838.
Blanchard, Hist. des Ins., Hémip., p. 112, 1840, *Tingis.*

truncaticollis Costa, Add. Cimic. Reg. Neap., p. 7, pl. 1, fig. 4, 1860.

lurida Garbiglietti, Bul. Soc. Ent. Ital., i, p. 274, 1869.

erythrocephala Garbiglietti, Bul. Soc. Ent. Ital., i, p. 275, 1869.
Walker, Cat. Heter., vi, p. 178, 1873.

a. var. **americana** Pshly.
Parshley, Psyche, xxiii, p. 164, 1916.
Locality: Mo. (for variety only, the species in Europe).

Page 212, after line 13 from bottom, add
Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917. Ia., Okl., Texas, Calif.

Page 212, after line 7 from bottom, add
Osborn and Drake, Ohio Jl. Sci., xvii, p. 300, 1917. Md., Va., Tenn., Ariz.

Page 213, after line 9, add
Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917.

Page 213, after line 13, add

639⅛. **Corythucha salicis** O. & D.
Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917.
Localities: Mass., Wis., Mont.

Page 213, after line 15, add [Ga., Wis., S. D., Ia., Neb., Texas, Col.
Osborn and Drake, Ohio Jl. Sci., xvii, p. 300, 1917. Pa., Md., Va., S. C.,

Page 213, after line 2 from bottom, add
Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Idaho, Ore., Calif.
[This species may prove distinct from *fuscigera* Stål.]

Page 214, after line 8, add

644¼. **Corythucha morrilli** O. & D.
Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917.
Localities: Colo., Ariz.

644½. **Corythucha coryli** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 299, 1917.

Locality: Md.

Page 214, after line 17, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 298, 1917. Pa., Ga., Tenn., Ia., La.

Page 214, after line 5 from bottom, add

648⅛. **Corythucha pura** Gibs.

Gibson, Ent. News, xxviii, p. 258, 1917.

Locality: Wash.

Page 215, after line 3, add

648¾. **Corythucha eriodictyonae** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 302, 1917.

Locality: Calif.

Page 215, after line 11, add [Wis.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 297, 1917. Ga., Ohio, Tenn., Ia.,

Page 215, after line 15, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Colo., Ariz.

Page 215, after line 21, add [Calif.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Wyo., Utah, Mont., *spinata* Osborn and Drake, Ohio Jl. Sci., xvii, p. 301, 1917. Mont.

Page 215, after line 27, add [(as var.).

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917. Ky., Ill.

Page 215, after line 30, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917.

Page 215, after line 34, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917. N. Y., D. C., Tenn.

Page 215, after line 11 from bottom, add

Corythucha padi Drake

Drake, Ohio Jl. Sci., xvii, p. 215, 1917.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 303, 1917.

Localities: Mont., Wash., Ore., B. C.

Corythucha hoodiana O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 302, 1917.

Locality: Ore.

Page 215, after line 6 from bottom, add

Drake, Ohio Jl. Sci., xvii, p. 214, 1917.

Page 215, after line 5 from bottom, add

650½. **Dolichocysta acuta** Drake

Drake, Ohio Jl. Sci., xvii, p. 214, 1917.

Localities: Colo., Mont.

Page 216, after line 15, add

Parshley, Psyche, xxiv, p. 15, 1917.

Page 216, after line 5 from bottom, add

Dickerson and Weiss, Ent. News, xxviii, p. 101, 1917 (life history).

Page 217, after line 3, add

Champion, Ent. Mo. Mag., lii, p. 207, 1916.

Parshley, Psyche, xxiv, p. 15, 1917.

Dickerson, Jl. N. Y. Ent. Soc., xxv, p. 105, 1917, *Leptobyrsa* (full account).

Page 217, after line 23, add

Drake, Ent. News, xxviii, p. 227, 1917 (key to species).

Page 218, after line 19, add

658⅛. **Gargaphia albescens** Drake

Drake, Ent. News, xxviii, p. 228, 1917.

Locality: Calif.

Genus **Corythaica** Stål

Haplotype *monacha* Stål

Stål, Enum. Hemip., iii, pp. 120, 128, 1873.

Champion, Biol. Centr. Am., Heter., ii, p. 9, 1897.

Champion, Trans. Ent. Soc. Lond. for 1898, p. 58.

Typonotus Uhler, Proc. Zool. Soc. Lond. for 1893, p. 716.

658¼. **Corythaica bellula** Bueno

Bueno, Bul. Brookl. Ent. Soc., xii, p. 19, 1917.

Locality: N. Y.

658½. **Corythaica constricta** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 304, 1917.

Locality: Colo.

Page 218, after line 25, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 60, 1917 (key to species).

Page 218, after line 31, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 62, 1917. Ia., Neb., Wis.

Page 218, after line 37, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 61, 1917.

Page 218, after line 6 from bottom, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 63, 1917. N. J., La.

Page 218, after line 5 from bottom, add

661½. **Leptostyla vilifer** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 60, 1917.

Locality: Ariz.

Page 219, after line 9 from bottom, add

Parshley, Psyche, xxiii, p. 165, 1916.

Page 220, after line 6, add

Parshley, Psyche, xxiv, p. 16, 1917.

McAtee, Bul. Brookl. Ent. Soc., xii, p. 55, 1917 (key to species).

Page 220, after line 16, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 58, 1917. Ont., Tenn., Ohio, Wis., [Neb.

Page 220, after line 17, add

666¼. **Leptoypha costata** Pshly.

Parshley, Psyche, xxiv, p. 16, 1917 (Febr.).

McAtee, Bul. Brookl. Ent. Soc., xii, p. 57, 1917. [1, 1917 (June).

distinguenda Heidemann, Proc. Ent. Soc. Wash., xviii, p. 218, pl. 17, fig.

Localities: Md., D. C., Va.

Page 220, after line 20, add

McAtee, Bul. Brookl. Ent. Soc., xii, p. 59, 1917. Texas, Calif.

Page 220, after line 21, add

666⅝. **Leptoypha minor** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 56, 1917.

Locality: Calif.

666¾. **Leptoypha elliptica** McAtee

McAtee, Bul. Brookl. Ent. Soc., xii, p. 57, 1917.

Locality: Texas.

Page 220, after line 26, add

Parshley, Psyche, xxiv, p. 17, 1917 (key to species).

Page 221, at top of page, add

669¼. **Melanorhopala obscura** Pshly

Parshley, Psyche, xxiii, p. 167, 1916.
Locality: Mass.

Page 221, after line 3, add

669⅝. **Melanorhopala infuscata** Pshly.

Parshley, Psyche, xxiv, p. 19, 1917.
Locality: Va.

Genus **Hesperotingis** Pshly.
Orthotype *antennata* Pshly.

Parshley, Psyche, xxiv, p. 21, 1917.

669¾. **Hesperotingis antennata** Pshly.

Parshley, Psyche, xxiv, p. 21, 1917.
Locality: Conn.

669⅞. **Hesperotingis fuscata** Pshly.

Parshley, Psyche, xxiv, p. 24, 1917.
Locality: Colo.

Page 221, after line 14, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 305, 1917 (key to species).
Parshley, Psyche, xxiv, p. 24, 1917.

Page 221, after line 16, add

Parshley, Psyche, xxiv, p. 25, 1917. N. H.

Page 221, after line 17, add

670⅝. **Alveotingis minor** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 305, 1917.
Locality: Ia.

670¾. **Alveotingis brevicornis** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 306, 1917.
Locality: Ia.

Page 222, after line 14 from bottom, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917.

Page 222, after line 6 from bottom, add

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917. Colo., N. Mex.

Page 222, after line 1 from bottom, add

679⅛. **Atheas nigricornis** Champ.

Champion, Biol. Centr. Am., Heter., ii, p. 45, pl. 3, fig. 21, 1898.
Osborn and Drake, Ohio Jl. Sci., xvii, p. 296, 1917.
Localities: Ariz. (Mexico, Guatemala.)

679¼. **Atheas annulatus** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 295, 1917.
Locality: Ark.

679½. **Atheas sordidus** O. & D.

Osborn and Drake, Ohio Jl. Sci., xvii, p. 296, 1917.
Locality: Ia.

Page 223, after line 25, add

Drake, Bul. Brookl. Ent. Soc., xii, p. 49, 1917 (key to species).

Page 223, after line 29, add

681¼. **Monanthia ehrethiae** Gibs.
Gibson, Bul. Brookl. Ent. Soc., xii, p. 50, 1917.
Locality: Texas.

681½. **Monanthia coloradensis** Drake
Drake, Bul. Brookl. Ent. Soc., xii, p. 51, 1917.
Locality: Colo.

Page 248, line 12 from bottom, for **gerstackeri** read **gerstaeckeri.**

Page 257, after line 11 from bottom, add
Davis, Jl. N. Y. Ent. Soc., xix, p. 112, 1911. N. Y.

Page 273, after line 8 from bottom, add

Genus **Merragata** Whte.
Haplotype *hebroides* Whte.
White, Ann. Mag. Nat. Hist., ser. 4, xx, p. 113, 1877.
Champion, Biol. Centr. Am., Heter., ii, p. 121, 1898.
Kirkaldy and Bueno, Proc. Ent. Soc. Wash., x, p. 215, 1908 (catalogue).
Bueno, Can. Ent., xliv, p. 32, 1912 (key to species).
Drake, Ohio Jl. Sci., xvii, p. 101, 1917 (key to species). [Berg.).
Lipogomphus Berg, Hemip. Arg., p. 286, 1879 (haplotype *lacuniferus*
Berg, Hemip. Arg. Add., p. 116, 1884.
Berg, Ann. Soc. Sci. Arg., ix, p. 14.

813¼. **Merragata foveata** Drake
Drake, Ohio Jl. Sci., xvii, p. 103, 1917.
Localities: Ohio, Colo.

813½. **Merragata brunnea** Drake
Drake, Ohio Jl. Sci., xvii, p. 105, 1917.
Locality: Ohio.

Page 274, after line 22, add
Hungerford, Psyche, xxiv, p. 73, 1917 (life history).

Page 282, after line 9 from bottom, add
Patch, Me. Agr. Exp. Sta., Bul. 244, p. 283, 1915 (life history).

Page 287, line 7, for Moufflet read Moufet.

Page 289, line 1, after Isis insert vii.

Page 291, line 4 from bottom, for Scholz read Scholtz.

Page 292, after line 13, add

Genus **Macrotracheliella** Champ.
Haplotype *laevis* Champ.
Champion, Biol. Centr. Am., Heter., ii, p. 322, 1900.
Parshley, Ent. News, xxviii, p. 37, 1917.

852½. **Macrotracheliella nigra** Pshly.
Parshley, Ent. News, xxviii, p. 38, 1917.
Locality: Mass.

Page 295, after line 6, add

Genus **Melanocoris** Champ.
Haplotype *obovatus* Champ.
Champion, Biol. Centr. Am., Heter., ii, p. 329, 1900.

865½. **Melanocoris obovatus** Champ.
Champion, Biol. Centr. Am., Heter., ii, p. 330, pl. 19, fig. 27, 1900.
Localities: Calif. (Giffard). (Guatemala.)

Page 309, after line 1, add

Reuter, Ann. Soc. Ent. Belg., lvii, p. 80, 1913.

Page 309, after line 6, add

§*longipennis* Oshanin, Kat. Palae. Hemip., p. 69, 1912 (as synonym).

Page 314, after line 9, add

Knight, Can. Ent., xlix, p. 251, 1917.

Page 325, after line 33, add

Genus **Neobothynotus** Wirtn.
Orthotype *modestus* Wirtn.

Wirtner, Ent. News, xxviii, p. 33, 1917.

976½. **Neobothynotus modestus** Wirtn.

Wirtner, Ent. News, xxviii, p. 34, 1917. [*pilosus* Boh.).

Knight, Can. Ent., xlix, p. 251, 1917 (suggests identity with *Bothynotus*

Localities: Pa., Ill.

Page 326, line 26

McAtee, Ann. Ent. Soc. Am., ix, p. 370, 1916. Lists following color varieties:

rubidus McAtee, p. 371.
triops McAtee, p. 371.
diops McAtee, p. 372.
percursus McAtee, p. 372.
compar McAtee, p. 373.
cunealis McAtee, p. 373.
lucidus McAtee, p. 373.
par McAtee, p. 373.
sordidus McAtee, p. 374.
bidens McAtee, p. 374.
ardens McAtee, p. 375.
nubilus McAtee, p. 375.
delta McAtee, p. 376.
varius McAtee, p. 376.
bicolor McAtee, p. 376.

Page 326, line 2 from bottom

McAtee, Ann. Ent. Soc. Am., ix, p. 382, 1916, lists following color varieties:

castus McAtee, p. 382.
colonus McAtee, p. 383.
amiculus McAtee, p. 384.

Page 327, after line 7, add

a. var. **ablutus** McAtee.

McAtee, Ann. Ent. Soc. Am., ix, p. 386, 1916.

Page 327, line 23

McAtee, Ann. Ent. Soc. Am., ix, p. 377, lists three color varieties:

ancora Kngt., p. 378.
fissus McAtee, p. 379.
pallidulus McAtee, p. 380.

Page 327, line 8, from bottom, for Zeit. read Monats.

Page 329, line 31, for Samm. read Versamm.

Page 329, line 33, for *Strob.* read *Strobl.*

Page 335, line 9 from bottom, for Trans. read Proc.

Page 339, at bottom of page, add

Mr. Knight in his revision of genus **Lygus**, now being published as Bulletin 391, Cornell Univ. Agr. Exp. Sta., uses the following classification of the species, founded on genital characters only:

Group I (*pratensis* group)

pratensis Linn., var. **punctatus** Zett., p. U. S., Can.
pratensis Linn., var. **rubidus** Kngt., p. Me.
vanduzeei Knight., p. E. U. S., Can. [Quebec, Nova Scot.
vanduzeei Kngt., var. **rubroclarus** Kngt., p. Mass., Vt., N. H., Me.,
convexicollis Reut., p. Calif., Wash.
convexicollis Kngt., var. **coloratus** Kngt., p. Calif.
humeralis Kngt., p. Br. Col.
columbiensis Kngt., p. Br. Col.
superiorensis Kngt., p. Mich.
atriflavus Kngt., p. Colo., N. Mex., Calif.
elisus Van D., p. S. D., Wyo., Colo., Texas, Ariz., Calif.
elisus Van D., var. **viridiscutus** Kngt., p. Calif.
elisus Van D., var. **hesperius** Kngt., p. Calif.
plagiatus Uhl., p. Mass., R. I., N. Y., N. J., Mo.
striatus Kngt., p. Calif.
nigropallidus Kngt., p. N. Mex.
areatus Kngt., p. Calif.
bradleyi Kngt., p. Calif.
niblius Van D., p. Calif.
ultranubilus Kngt., p. Neb., Colo., N. Mex.
nubilatus Kngt., p. Calif.
nubilosus Kngt., p. Colo., Utah, N. Mex.
distinguendus Reut., p. Colo., Utah, B. C. (Asia).
distinguendus Reut., var. **tahoensis** Kngt., p. Calif.
robustus Uhl., p. Colo., Calif.

Group II (*campestris* group)

rubicundus Fall., p. U. S., Can. (Europe.)
rubicundus Fall., var. **winnipegensis** Kngt., p. Manitoba.
sallei Stål, p. Colo., N. Mex., Ariz., Calif.
campestris Linn., p. U. S., Can. (Europe.)
distinctus Kngt., p. Ariz.
pabulinus Linn., p. U. S., Can. (Europe.)

Group III (*approximatus* group)

approximatus Stål, p. N. H., N. Y., Ont., B. C., Alask.

Group IV (*olivaceus* group)

olivaceus Reut., p. Conn., N. Y., N. J., Fla., La. (West Indies.)
olivaceus Reut., var. **viridiusculus** Kngt., p. Mass.
fasciatus Reut., p.

Group V (*apicalis* group)

apicalis Fieb. U. S. (Neotropical.)

Group VI (*communis* group)

(Subgenus **Neolygus** Kngt. n. subg., p.)

fagi Kngt., p. Vt., Mass., N. Y.
invitus Say, p. E. St.

atritylus Kngt., p. Vt., N. H., Colo.
confusus Kngt., p. Me., N. H.
alni Kngt., p. N. H., N. Y., Nova Scot.
geneseensis Kngt., p. Mass., N. Y., Pa., Md., Va., Mo.
viburni Kngt., p. Vt., Conn., N. Y.
parshleyi Kngt., p. Me., N. H.
parshleyi Kngt., var. **shermani Kngt.**, p. N. C.
inconspicuus Kngt., p. Conn., N. Y., Md., Va., Ga.
tiliae Kngt., p. Vt., Mass., Conn., N. Y., Ont.
caryae Kngt., p. Vt., Mass., Conn., N. Y., Miss.
caryae Kngt., var. **subfuscus** Kngt., p. Mass., Conn., N. Y., Miss.
atrinotatus Kngt., p. Pa., D. C., N. C.
vitticollis Reut., p. N. Y., Mich.
neglectus Kngt., p. Mass.
communis Kngt., p. Me., Vt., N. H., Mass., Conn., N. Y., Va.
communis Kngt., var. **novascotiensis** Kngt., p. Nova Scotia.
univittatus Kngt., p. N. Y.
quercalba Kngt., p. Mass., N. Y., Va., Wis.
semivittatus Kngt., p. N. Y., Va. [N. C.
omnivagus Kngt., p. Ont., Vt., R. I., N. H., Mass., Conn., N. Y., Va.,
johnsoni Kngt., p. Vt., Conn., N. Y.
belfragei Reut., p. Ont., Me., Vt., Mass., N. Y.
clavigenitalis Kngt., p. Me., Mass., Md.
hirticulus Van D., p. N. Y.
canadensis Kngt., p. Ont., Wis.
canadensis Kngt., var. **binotatus** Kngt., p. N. J.
ostryae Kngt., p. Ont., Vt., Mass., N. Y.
laureae Kngt., p. N. Y., Va., N. C.
?carolinae Reur., p.

Page 343, after line 11, add

a. var. **novascotiensis** Kngt.

Knight, Can. Ent., xlviii, p. 349, 1916.

Brittain, Nova Scotia Dept. Agr., Bul. 8, 1917 (life history).

Page 346, after line 23, add

Riley, 2d Rept. Nox. Ins. Mo., p. 113, 1870, *Capsus.*

Page 350, after line 14 from bottom, add

Dickerson and Weiss, Jl. N. Y. Ent. Soc., xxiv, p. 302, 1917 (life history).

Page 367, after line 23, add

Knight, Ent. News, xxviii, p. 3, 1917.

Page 375, after line 22, add

Knight, Can. Ent., xlix, p. 249, 1917. Me.

Page 385, line 6. This note refers to preceding reference only and should have been placed at right end of line.

Page 396, after line 14, add

Genus **Heterotoma** Latr.*

Haplotype *spissicornis* Fabr. = *meriopterus* Scop.

Latreille *in* Cuvier, Règne Animal, edn. 2, v, p. 199, 1829.

Laporte, Essai Classif. Syst. Hémip., p. 40, 1832.

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* Reuter credits *Heterotoma* to Le Peletier et Serville, Encyc. Méth., x, without page, but my notes on this volume do not contain the reference and I have not now access to the work. It may be necessary to write the name "*Heterotoma* Lep. & Serv., 1825."

Burmeister, Hand. d. Ent., ii, p. 275, 1835.
Brullé, Hist. des Ins., ix, p. 408, 1835.
Blanchard, Hist. des Ins., Hémip., p. 140, 1840. [*cornis* Fabr. as type).
Westwood, Intr. Mod. Classif. Ins., ii, Synop., p. 121, 1840 (cites *spissi-*
Amyot and Serville, Hémip., p. 283, 1843.
Spinola, Tavola Sinot., p. 43, 1850.
Fieber, Wien. Ent. Monats., ii, p. 315, 1858.
Fieber, Europ. Hemip., pp. 71, 290, 1861.
Douglas and Scott, Brit. Hemip., p. 437, 1965.
Walker, Cat. Heter., vi, pp. 44, 134, 1873.
Reuter, Genera Cimic. Eur., p. 37, 1875.
Reuter, Crit. Rev. Caps., i, p. 92, 1875.
Reuter, Hemip. Gymn. Eur., iii, pp. 336, 544, 1883.
Hüeber, Synop. Deut. Blindw., ii, pp. 105, 214, 1894? [not valid).
Heterotome Latreille, Fam. Nat. Règ. Anim., p. 422, 1825 (French form,
Reuter, Acta Soc. Sci. Fenn., xxxvii, No. 3, p. 149, 1910.

1180½. **Heterotoma meriopterum** (Scop.)

Scopoli, Ent. Carn., p. 131, 1763, *Cimex.*
Rossi, Fauna Etrus., ii, p. 249, 1790, *Cimex.*
Fieber, Europ. Hemip., p. 290, 1861.
Douglas and Scott, Brit. Hemip., p. 438, pl. 14, fig. 5, 1865.
Saunders, Trans. Ent. Soc. Lond. for 1875, p. 295.
Reuter, Hemip. Gymn. Eur., iii, pp. 336, 548, pl. 5, fig. 28, 1883.
Reuter, Rev. Synon., p. 296, No. 274, 1888.
Saunders, Hemip. Heter. Brit. Isds., p. 295, pl. 27, fig. 7, 1892.
Knight, Can. Ent., xlix, p. 250, 1917 (occurrence in America).
planicornis Pallas, Specil. Zool., ix, p. 23, pl. 1, fig. 13, 1772, *Cimex.*
spissicornis Fabricius, Genera Ins., p. 147, 1776, *Cimex.*
Panzer, Fauna Germ., ii, fig. 15, 1793, *Cimex.*
Donovan, Brit. Ins., iv, p. 71, pl. 135, 1794, *Cimex.*
Fabricius, Ent. Syst., iv, p. 181, 1794, *Lygaeus.*
Schellenberg, Ges. Land- u. Wasserw., p. 14, pl. 3, fig. 4, 1800, *Miris.*
Schrank, Fauna Boic., ii, p. 88, 1801, *Cimex.*
Fabricius, Syst. Rhyng., p. 246, 1803, *Capsus.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 233, 1804, *Capsus.*
Laporte, Essai Classif. Syst. Hémip., p. 41, 1832.
Herrich-Schaeffer, Nomen. Ent., p. 52, 1835, *Capsus.*
Burmeister, Hand. d. Ent., ii, p. 276, 1835.
Costa, Cimic. Reg. Neap., Cent. i, p. 54, fig. 11, 1838.
Blanchard, Hist. des Ins., Hémip., p. 140, 1840.
Amyot and Serville, Hémip., p. 283, 1843.
Meyer-Dür, Verz. Rhyn. Schw., p. 64, 1843, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 40, 1853, *Capsus.*
ater, Geoffroy *in* Fourcroy, Ent. Paris., p. 211, 1785, *Cimex.*
?crassicornis Fabricius, Syst. Ent., iv, p. 70, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 246, 1803, *Capsus.* [609, 1806, *Cimex.*
?crassipennis Turton *in* Linnaeus, Syst. Nat., edn. 13 (Eng. edn.), ii, p.
Localities: N. Y. (Europe.)

Page 397, after line 7 from bottom, add

Genus **Cyrtorhinus** Fieb.

Logotype(?) *elegantulus* Mey. = *caricis* Fall.

Fieber, Wien. Ent. Monats., ii, p. 313, 1858.

Fieber, Europ. Hemip., pp. 69, 284, 1861.
Reuter, Genera Cimic. Eur., p. 31, 1875 (as subgenus).
Reuter, Rev. Crit. Caps., i, p. 91; ii, p. 125, 1875 (as subgenus).
Reuter, Hemip. Gymn. Eur., iii, pp. 379, 545, 1883, *Cyrtorrhinus*.
Atkinson, Cat. Capsidae, p. 134, 1888, *Cyrtorrhinus*.
Hüeber, Synop. Deut. Blindw., ii, pp. 106, 148, 1897, *Cyrtorrhinus*.
Kirkaldy, Trans. Am. Ent. Soc., xxxii, p. 128, 1906 (names *elegantulus*
Oshanin, Verz. Palae. Hemip., i, p. 835, 1910, *Cyrtorrhinus*. [type).
Oshanin, Kat. Palae. Hemip., p. 73, 1912, *Cyrtorrhinus* (cites *caricis* as type).
Tytthus Fieber, Wien. Ent. Monats., viii, p. 82, 1864 (type *geminus* Flor.).
‖*Periscopus* Breddin, Deut. Ent. Zeit. for 1896, p. 106 (type *mundulus* [Bred.).
Breddiniessa Kirkaldy, Wien. Ent. Zeit., xxii, p. 13, 1903 (n.n. for [*Periscopus* Bred.).

1186¼. **Cyrtorhinus caricis** (Fall.)

Fallén, Monog. Cimic. Suec., p. 102, 1807, *Capsus*.
Fallén, Hemip. Suec., Cimic., p. 123, 1829, *Capsus*.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 76, 1855, *Capsus*.
Reuter, Genera Cimic. Eur., p. 31, 1875.
Reuter, Rev. Crit. Caps., ii, p. 128, 1875.
Thomson, Opusc. Ent., iv, p. 437, 1871, *Capsus* (*Orthotylus*).
Reuter, Hemip. Gymn. Eur., iii, pp. 383, 555, pl. 1, fig. 10; pl. 2, fig. 3, 1883.
Saunders, Hemip. Heter. Brit. Isds., p. 283, pl. 26, fig. 5, 1892.
Hüeber, Synop. Dept. Blindw., ii, p. 150, 1897.
Oshanin, Verz. Palae. Hemip., i, p. 835, 1910.
Knight, Can. Ent., xlix, p. 250, 1916 (occurrence in America).
elegantulus Meyer-Dür, Verz. Schw. Rhyn., Caps., p. 69, pl. 5, fig. 2, [1843, *Capsus*.
Fieber, Europ. Hemip., p. 285, 1861.
Douglas and Scott, Brit. Hemip., p. 351, 1865, *Sphyracephalus*.
chloropterus Herrich-Schaeffer, Wanz. Ins., Verz., p. 34, 1853, *Capsus*.
Localities: Mass., N. Y., N. J. (Europe.)

1186½. **Cyrtorhinus pygmaeus** (Zett.)

Zetterstedt, Ins. Lapp., column 279, 1840, *Capsus*.
Flor, Rhyn. Livl., i, p. 605, 1860, *Capsus*.
Fieber, Wien. Ent. Monats, viii, p. 83, 1864, *Tytthus*.
Reuter, Genera Cimic. Eur., p. 31, 1875.
Reuter, Rev. Crit. Caps., ii, p. 127, 1875.
Thomson, Opusc. Ent., iv, p. 437, 1871, *Tytthus*.
Reuter, Hemip. Gymn. Eur., iii, pp. 381, 554, pl. 2, fig. 4, 1883.
Saunders, Hemip. Heter Brit. Isds., p. 283, pl. 26, fig. 6, 1892.
Hüeber, Synop. Deut. Blindw., ii, p. 149, 1897.
Oshanin, Verz. Palae. Hemip., i, p. 836, 1910.
pellucens Boheman, Of. Vet. Akad. Forh., ix, p. 76, 1852, *Capsus*.
Localities: Fla. (Slosson, Bradley). (Europe.)

Page 399, after line 18, add

1189½. **Orthocephalus mutabilis** (Fall.)

Fallén, Monog. Cimic. Suec., p. 98, 1807, *Capsus*.
Fallén, Hemip. Suec., Cimic., p. 118, 1829, *Capsus*.
Burmeister, Handb. d. Ent., ii, p. 277, 1835, *Halticus*.
Kirschbaum, Rhyn. v. Wiesbd., Caps., p. 83, *Capsus* (*Leptomerocoris*).
Flor, Rhyn. Livl., i, p. 567, 1860, *Capsus* (part).

Fieber, Europ. Hemip., p. 293, 1861.
Douglas and Scott, Brit. Hemp., p. 430, 1865.
Reuter, Hemip. Gymn. Eur., iv, pp. 48, 165, 166, pl. 4, figs. 2, 3, 1891.
Saunders, Hemip. Heter. Brit. Isds., p. 270, 1892.
Hüeber, Synop. Deut. Blindw., ii, p. 18, 1897.
Knight, Can. Ent., xlix, p. 249, 1917 (occurrence in America).

?coriacea Fabricius, Genera Ins., p. 299, 1776, *Acanthia.*
Fabricius, Ent. Syst., iv, p. 69, 1794, *Acanthia.*
Fabricius, Syst. Rhyng., p. 115, 1803, *Salda.*
Latreille, Hist. Nat. Crust. Ins., xii, p. 220, 1804, *Lygaeus.*
Stål, Hemip. Fabr., i, p. 88, 1868.
Thomson, Opusc. Ent., iv, p. 432, 1871.
Reuter, Rev. Crit. Caps., ii, p. 94, 1875.
Saunders, Trans. Ent. Soc. Lond. for 1875, p. 289.
Reuter, Rev. Synon., p. 288, No. 263, 1888, *Lopus.*

†*grylloides* Goeze, Ent. Beytr., ii, p. 187, 1778, *Cimex.*

pilosus Hahn, Wanz. Ins., ii, p. 96, fig. 181, 1831, *Capsus.*
Herrich-Schaeffer, Nomen. Ent., pp. 52, 86, 1835, *Capsus.*
Meyer-Dür, Verz. Rhyn. Schw., p. 59, 1843, *Capsus.*
Herrich-Schaeffer, Wanz. Ins., Verz., p. 38, 1853, *Capsus.*
Flor, Rhyn. Livl., i, p. 564, 1860, *Capsus.*

?stygialis Mulsant and Rey, Opusc. Ent., i, p. 151, 1852, *Capsus.*

Localities: Me. (Europe.)

Page 404, after line 17, add

Genus **Oncotylus** Fieb.

Logotype *punctipes* Reut.

Fieber, Wien. Ent. Monats., ii, p. 318, 1858.
Fieber, Europ. Hemip., pp. 72, 298, 1861.
Thomson, Opusc. Ent., i, p. 452, 1871.
Reuter, Hemip. Gymn. Eur., ii, p. 273, 1879; iii, p. 531, 1883.
Provancher, Pet. Faune Ent. Can., iii, p. 147, 1887.
Kirkaldy, Trans. Am. Ent., Soc., xxxii, p. 126, 1904.
Van Duzee, Univ. Calif. Publ., Div. Ent. Tech. Bul., i, p. 214, 1916.

Anoterops Fieber, Wien. Ent. Monats., ii, p. 317, 1858.
Fieber, Europ. Hemip., pp. 72, 297, 1861.

Cylindromelus Fieber, Europ. Hemip., p. 393, 1861.

Page 412, after line 6, add

Leonard, Jl. N. Y. Ent. Soc., xxiii, p. 193, 1915 (life history).

Page 415, line 19, for 1265 read 1256.

Page 418, after line 12, add

Leonard, Jl. N. Y. Ent. Soc., xxiii, p. 195 (life history).

Page 419, after line 9 from bottom, add

Knight, Can. Ent., xlix, p. 248, 1917. N. Fndl., N. Y., Colo.

Page 427, after line 20, add

Bueno, Ent. News, xxviii, p. 201, 1917 (life history).
Olsen, Bul. Brookl. Ent. Soc., xii, p. 21, 1917 (life history).

Page 427, after line 15 from bottom, add

Osborn and Drake, Ohio Nat., xv, p. 503, 1915. Ohio.

Page 428, after line 19, add

Bueno, Ent. News, xxviii, p. 295, 1917 (life history).

Page 430, after line 3, add

Osborn and Drake, Ohio Nat., xv, p. 503, 1915. Ohio.

Page 435, line 10, for *Boecula* read *Baecula.*
Page 447, after line 2, add
Parshley, Can. Ent., xlix, p. 48, 1917 (on shore drift).
Page 450, after line 18, add
Hungerford, Ent. News, xxviii, p. 179, 1917 (life history).
Page 452, after line 1, add
Hungerford, Ent. News, xxviii, p. 267, 1917 (life history).
Page 454, after line 4 from bottom, add
Hungerford, Ent. News, xxviii, p. 179, 1917 (life history).
Page 456, line 11, for **Ploa** read **Plea.**
Page 471, after line 2, add
Harvey, Can. Ent., xxxix, p. 17, 1907 (life history).
Page 477, after line 11, add
Hungerford, Jl. N. Y. Ent. Soc., xxv, pp. 1, 112, 1917 (habits, life history).
Page 487, line 23, for SECTION read SERIES.
Page 501, after line 16, add
Lander, Jl. N. Y. Ent. Soc., iii, p. 33, 1895 (domed burrows).
Page 502, line 3, for Calif. read Ariz.
Page 503 line, 4 from bottom, for **Okagana** read **Okanagana.**
Page 504, after line 7 from bottom, add
Davis, Jl. N. Y. Ent. Soc., xxv, p. 6, 1917.
Page 523, after line 23, add
Brittain, Proc. Ent. Soc. Nova Scot. for 1917, p. 34.
Page 524, after line 15, add
Brittain, Proc. Ent. Soc. Nova Scot. for 1917, p. 36.
Page 563, after line 9, add
Matausch, Jl. N. Y. Ent. Soc., xxiv, p. 151, 1916 (nymphs).
Page 569, after line 10, add
Gibson, Can. Ent., xlix, p. 75, 1917 (lists additional Mo. species).
Page 580, after line 15 from bottom, add
Brittain and Saunders, Can. Ent., xlix, p. 149, 1917 (with plate).
Page 582, line 1, for p. 45 read p. 82.
Page 604, after line 12 from bottom, add
Gibson, U. S. Dept. Agr., Bul. 254, 1915 (life history).
Page 605, line 25, add (Fh.)
Page 616, line 16, for Ann. read Anal.; for Natl. read Nacnl.
Page 623, line 13, for (Van D.) read (Fieb.), and add
Fieber, Kat. Eur. Cicad., p. 10, 1872, *Doridiae.*
Page 658, after line 9 from bottom, add

2142½. **Euscelis ozarcensis** Gibs.

Gibson, Can. Ent., xlix, p. 184, 1917.
Locality: Mo.
Page 679, line 11 from bottom, for **gilletti** read **gillettii.**
Page 692, after line 14, add

2355½. **Tinobregmus moodii** Gibs.

Gibson, Can. Ent., xlix, p. 183, 1917.
Locality: Mo.
Page 708, line 9 from bottom, for **bifasciata** (G. & B.), read
a. var. **gillettei** n.n.—and change next line to read
‖*bifasciata* Gillette and Baker, Hemip. Colo., p. 111, 1895, *Typhlocyba.*
and indent next five lines.

Page 710, line 34, probably ‖ should read †, and add date 1874.
Page 711, after line 16, add [history).
Brittain and Saunders, Proc. Ent. Soc. Nova Scot. for 1917, p. 48 (life
Page 711, after line 25, add
2437½. **Empoa modesta** (Gibs.)
Gibson, Can. Ent., xlix, p. 184, 1917, *Typhlocyba.*
Locality: Mo.
Page 718, line 17, for Ann. Zool. Bot., read Ann. Mag. Nat. Hist.
Page 720, after line 5, add
Gibson, Bul. Brookl. Ent. Soc., xii, p. 69, 1917 (key to species).
Page 726, line 16, add at end *Loxophora.*
Page 731, after line 14 from bottom, add
Scott, Ent. Mo. Mag., vii, p. 119, 1870.
Page 734, after line 29, add
Scott, Ent. Mo. Mag., vii, p. 121, 1870.
Page 766, after line 4, add
Spinola, Ann. Soc. Ent. Fr., viii, p. 333, 1839, *Delphax.*
Page 773, after line 8 from bottom, add
Scott, Ent. Mo. Mag., vii, pp. 23, 25, 1870.
Page 780, after line 24, add
2803½. **Dicranotrops cubana** Crawf.
Crawford, Proc. U. S. Natl. Mus., xlvi, p. 595, 1914.
Weiss, Ent. News, xxviii, p. 215, 1917.
Localities: N. J. (Cuba.)
Page 781, line 9 from bottom, for 1906 read 1806.

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†*brevicornis Prov., Ceresa,* 1580.
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†*breviusculus Van D., Phytocoris,* 953.
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†*calcaratus Uhl., Alydus,* 323.
†*calcaratus Uhl., Brachytropis,* 882.
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†*canicularis Prov., Cicada,* 1474.
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†*capitata Bueno, Rhagovelia,* 1304.
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†*carbonaria Uhl., Microtoma,* 594.
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§*carinata Woodw., Dicraneura,* 2392.
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†*flavescens Van D., Pediopsis,* 1817.
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†*flavilineata Spångb., Gypona,* 1898.
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†*flavomaculatus Prov., Globiceps,* 917.
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†*ovatus Bergr., Neuroctenus,* 409.
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†*pacifica Kirk., Orthaca,* 547.
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†*perpunctatus Uhl., Triphleps,* 864.
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†*pictipes Montd., Gcocoris,* 498.
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†*picturata Uhl., Salacia,* 579.
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†*pilicornis Uhl., Dasycoris,* 333.
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†*pilosulus Van D., Salacia,* 579.
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†*pipistrelli Chitt., Cimex,* 837.
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†*platycnemis Uhl., Anisops,* 1362.
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†*pluto Prov., Alydus,* 323.
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†*plutonius Prov., Athysanus,* 2138.
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†*politus Prov., Aneurus,* 413.
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†*prasinus Reut., Allorhinocoris,* 965.
†*prasina D. & S., Litosoma,* 1172.
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†*producta Van D., Dicdrocephala,* 1875.
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†*propinquus Prov., Coriscus,* 818.
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†*proteus Prov., Clastoptera,* 1562*c*.
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†*providus Bak., Nysius,* 466.
†*providus Uhl., Nysius,* 461.
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†*psalliodes Prov., Parthenicus,* 1184.
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†*pteridis Uhl., Bryocoris,* 1140.
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†*pulchella Bueno, Microvelia,* 1303.
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†*pulchellus Prov., Oncotylus,* 1172.
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†*punctata Mlch., Cyarda,* 2664.
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†*punctipennis Thom., Nysius,* 468.
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†*punctiventris Stål, Corizus,* 349.
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†*punctulata Prov., Trichia,* 1044.
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†*pungens Stål, Opiscoetus,* 733.

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†*pusillus Burm., Hebrus,* 810.
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signata Ball, Uhleriella, 1964.
signatifrons Van D., Deltocephalus, 2066.
‖*signatus Uhl., Agalliastes,* 1266.
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†*signoreti Van D., Bothriocera,* 2524*a*.
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‖*similis Crawf., Trioza,* 2869.
‖*similis Crawf., Trioza,* 2870.
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†*sinuata Fh., Entilia,* 1716.
†*sinuata Buckt., Entylia,* 1716*a*.
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†*sinuatus Guer., Alydus,* 318.
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slossoni Ball, Liburnia, 2759.
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slossoni Ball, Phlepsius, 2241.
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†*spumarius Fall., Cercopis,* 1560*a*.
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†*stagnalis Uhl., Velia,* 1314.
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†*stigmatus Uhl., Cixius,* 2545.
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†*stollii H.S., Zaitha,* 1404.
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†*stria Smith, Sirthenea,* 750.
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†*striatulus O. & B., Athysanus,* 2146.
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stygica Ball, Uhleriella, 1963.
†*stygicus Uhl., Mononyx,* 1410.
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†*subbifasciatus Prov., Idiocerus,* 1795.
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†*subulata Prov., Ceresa,* 1577.
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†*succinctus Osb., Largus,* 616.
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†*sulcifrons Thoms., Capsus,* 1017.
†*sulcifrons D. & S., Lygus,* 1015.
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†*sylvaticus Panz., Lygaeus,* 589.
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†*sylvestris Osh., Ligyrocoris,* 537.
†*sylvestris Stål, Ligyrocoris,* 538.
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†*tabida Bueno, Cymodema,* 484.
†*tabida (Uhl.), Cymodema,* 487.
†*tabida Banks, Monanthia,* 662.
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†*tabidus Prov., Cymus,* 485.
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†*tibialis Uhl., Corimelaena,* 37.
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†*tibicen Germ., Cicada,* 1473.
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†*trimaculata Van D., Pediopsis,* 1819.
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†*tuberculifer Uhl., Aradus*, 383.
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†*turcicus Prov., Lygaeus*, 437.
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†*twiningi Van D., Paramesus*, 1972.
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